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DEVOTED TO FUNDAMENTAL RESEARCH
IN THE BRAIN SCIENCES

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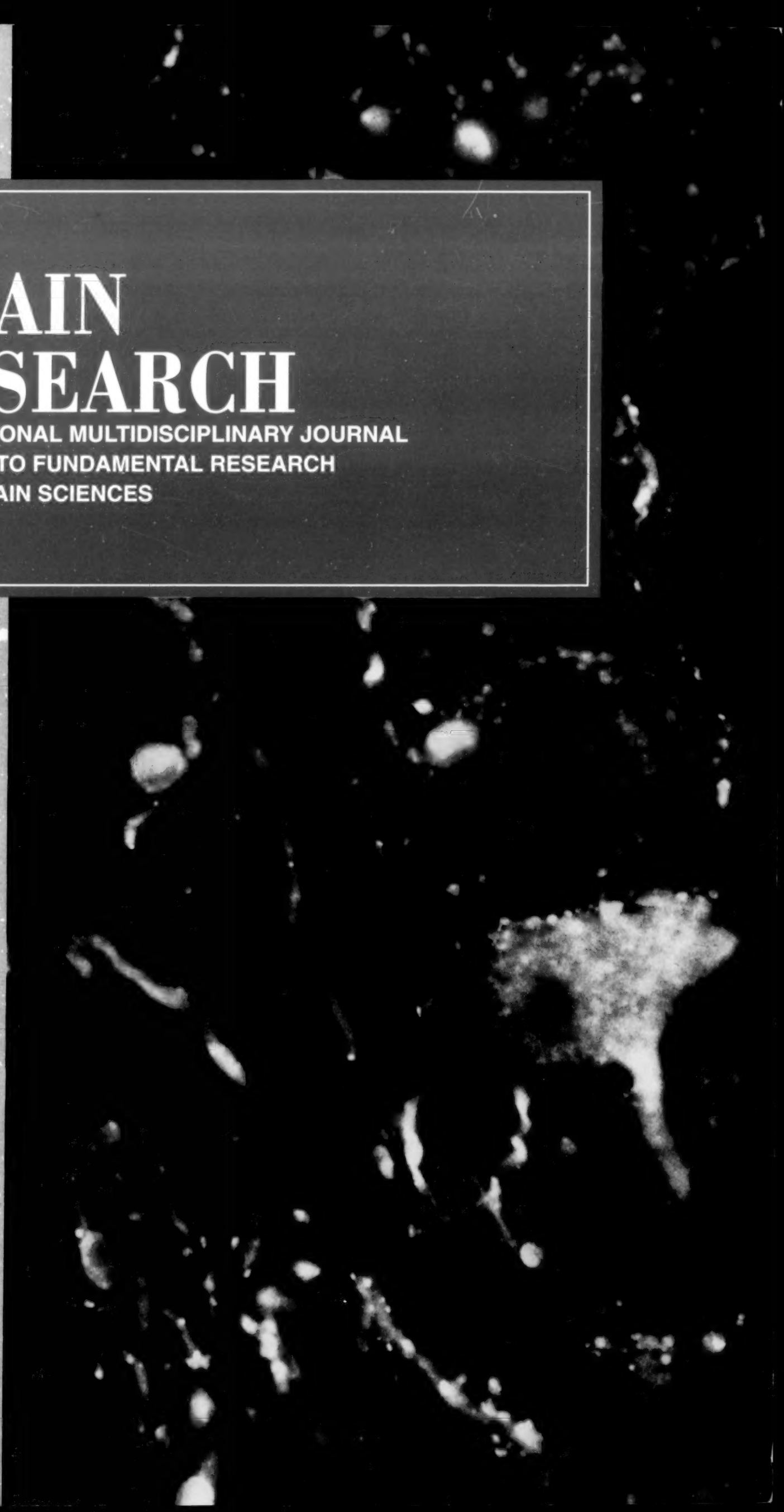

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AUTHOR AND SUBJECT INDEXES 1996

(including Developmental Brain Research, Molecular Research, Brain Research Reviews and Cognitive Brain Research)

Publication Schedule (1998)

Brain Research (including **Molecular Brain Research, Developmental Brain Research, Brain Research Reviews, Cognitive Brain Research** and **Brain Research Protocols**) is published according to the following scheme:

BRAIN RESEARCH (1998) (59 volumes in 125 issues)					
Brain Research Vols. 779–814 (36 volumes in 72 issues) weekly	**Molecular Brain Research** Vols. 51–61 (11 volumes in 22 issues) * monthly	**Developmental Brain Research** Vols. 105–111 (7 volumes in 14 issues) monthly	**Brain Research Reviews** Vols. 26–28 (3 volumes in 9 issues)	**Cognitive Brain Research** Vol. 6 (1 volume in 4 issues) *	**Brain Research Protocols** Vol. 1 (1 volume in 4 issues) *

* Please note that Volumes 51–52 of **Molecular Brain Research**, Volume 6 (Issues no. 1 and 2) of **Cognitive Brain Research**, and Volume 2 (issue no. 1) of **Brain Research Protocols** were published ahead of schedule in 1997, in order to reduce publication time. The volumes remain part of the 1998 subscription year.

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Subscribers to the journal or its sections should note that the section titles are now prefixed with the main journal title in order to facilitate cataloguing. All sections should therefore be indexed under **Brain Research**.

The correct **citation** to all articles is readily found in the reference line at the top of the first page of all articles. Articles published in **Brain Research** are cited according to the section in which they appear.

Authors are advised that the following **manuscript codes** are in operation:

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BRES2....		Short Communications
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Cover Figure Legend: Dual simultaneous immunolocalization of NPY (Cy3 immunofluorescence, red) and MAP-2 (FITC immunofluorescence, green) in the superior ganglion of an aged diabetic man.

♾ The paper used in this publication meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper).

INTRODUCTION

The 1996 Cumulative Author and Subject Index comprises 10 separate indexes: the Author and Subject Indexes of **Brain Research, Developmental Brain Research, Molecular Brain Research, Brain Research Reviews** and **Cognitive Brain Research.** Each section had its own volume numbering according to the schedule below. This numbering has been used in the present indexes.

BRAIN RESEARCH (1995) Volumes				
Brain Research Vols. 706–743	**Developmental Brain Research Vols. 91–97**	**Molecular Brain Research Vols. 35–43**	**Brain Research Reviews Vol. 22**	**Cognitive Brain Research Vols. 3–4**

Please note that the above schedule differs slightly from the 1996 publication schedule:

Volume 743 of **Brain Research** belongs to the 1997 subscription year but was published in 1996 and has been indexed in the present index.

Volumes 33 and 34 of **Molecular Brain Research** was published in 1995 and has been indexed in the 1995 index. Volumes 41–43 belong to the 1997 subscription year but were published in 1996 and have been indexed in the present index.

Volume 23 of **Brain Research Reviews** will be published in 1997 together with the scheduled Volumes 24–25.

Volume 3 of **Cognitive Brain Research** has been indexed in the present index as its publication had been delayed. (Volume 3 belongs to the 1995 subscription year.)

The Editor and Publisher of Brain Research welcome any comments on the usefulness of this index as well as suggestions for improvements.

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Publisher's Announcement

Launch of *Brain Research interactive*

Elsevier is pleased to announce the launch of **Brain Research *interactive*** on the World Wide Web. This is the electronic, interactive version of *Interactive Reports* being published in **Brain Research** and its sections *Interactive Reports* are articles describing original, high quality, fundamental research in any area of neuroscience that have been found worthy of priority publication following a critical peer review process. Both the review process and publisher's processing of such articles are very fast. It is our aim that *Interactive Reports* will first appear on the WWW approximately 3 weeks after acceptance, and then in print in *Brain Research* or one of its sections approximately 6 weeks after acceptance.

Authors may use the Internet to submit their manuscripts electronically using SMART Submitter™, which is linked to the **Brain Research interactive** home page. SMART Submitter is one of an integrated set of programs entitled SMART Works™ (System for Manuscript Authoring and Review Technology), that has been designed by Warren Young and Floyd Bloom on behalf of Elsevier to work in combination to support the submission of peer-reviewed articles through the review cycle. SMART Works uses the Internet as the connecting network among all users – authors, editorial staff, reviewers and publisher – resulting in greatly reduced time-to-review, time-to-publish, and time-to-read periods. Authors can also use SMART Submitter to track their manuscript and the status of the review cycle. [At present, only a Macintosh version of the SMART Submitter is available; a Windows '95 version will be available mid-1997.]

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Noradrenergic A_2 cell group; Dorsal vagal complex; Angiotensin II; Circumventricular organ; Baroreceptor reflex; Central cardiovascular regulation (Ciriello, J. (726) 227)

Adrenergic receptor
Water intake; Natriuresis; Kaliuresis; Diuresis; Arterial pressure (Kelli Pereira da Silva, R. (717) 38)

Hypothalamus; Septal-hippocampal pathway; Tyrosine; Cognitive function; Mouse; Eight-arm maze; Diet restriction; Anorexia nervosa (Avraham, Y. (732) 133)

Striate cortex; Lateral geniculate nucleus; Development; Noradrenaline; Synaptic plasticity (Muguruma, K. (740) 131)

α_2-Adrenoceptor
Neuropeptide Y; Neuropeptide Y receptor; Antinociception; Feeding; Opioid receptor; Mouse (Broqua, P. (724) 25)

Noradrenaline; Red nucleus; β-Adrenoceptor; Electrophysiology; Microiontophoresis (Ciranna, L. (743) 284)

β-Adrenoceptor
Heart rate; Autonomic nervous system; Stress; Medial frontal cortex; Agranular insular cortex; Noradrenaline; Dopamine (Funk, D. (741) 220)

Noradrenaline; Red nucleus; α_2-Adrenoceptor; Electrophysiology; Microiontophoresis (Ciranna, L. (743) 284)

α_2-Adrenoceptor agonist
Allodynia; Central pain; Clonidine; Intrathecal; Neuropathic pain; Sedation; Spinal cord (Hao, J.-X. (736) 28)

Adrenocorticotropin
Adenylate cyclase activity; cAMP production; Corticotropin-releasing factor; Pituitary; Receptor downregulation (Dieterich, K.D. (710) 287)

Interleukin-1β; Immune; Cytokine; Regulation; Hypothalamic-pituitary-adrenal axis; Vagus (Kapcala, L.P. (728) 247)

Adrenomedullin
Amylin; Calcitonin; Calcitonin gene-related peptide; Receptor; Astrocyte; Hybrid cell (Zimmermann, U. (724) 238)

Adriamycin
Doxorubicin; Motoneuron; Aging; Neurotoxicity; Equivalent cylinder; Cell size; Intracellular recording (Liu, R.-H. (738) 121)

Adult
Motoneuron; Axotomy; Ciliary neurotrophic factor; Ultrastructure; Rat (Demetriou, T. (733) 312)

Advanced glycation end-product
Oxidative stress; Parkinson's disease; Diffuse Lewy body disease; Immunocytochemistry (Castellani, R. (737) 195)

AF64A
Cholinergic degeneration; Oxidative stress; Oxygen-free radical (Gulyaeva, N.V. (726) 174)

AF102B
APP secretion; PI metabolism; Various brain regions; M1 receptor; Alzheimer's disease (Pittel, Z. (742) 299)

AF-DX 116
Tacrine; In vitro ACh release; Cortical synaptosome; Atropine; Pirenzepine; Muscarinic receptor (Svensson, A.-L. (726) 207)

Afferent
Ultrastructure; Anatomy; Analgesia; Neurotransmitter (Cheng, P.Y. (731) 141)

Muscle spindle; Kinaesthesia; Proprioception; Intrafusal; Elbow joint; Contraction; Stretch; Sensation (Wise, A.K. (735) 125)

Afferent input
c-*fos*; Ureter; Electrical stimulation; Rat; Spinal cord (Matsumoto, G. (709) 197)

Afferent, muscle
Ensemble coding; Stimulus discrimination; Simultaneous recording; Afferent, single; Afferent, sensory; Mechanoreceptor (Bergenheim, M. (734) 157)

Afferent, (nor)adrenergic
Lactation; Stress; Hypothalamus-pituitary-adrenal (HPA) axis; Paraventricular nucleus (Toufexis, D.J. (737) 71)

Afferent, sensory
Ensemble coding; Stimulus discrimination; Simultaneous recording; Afferent, single; Afferent, muscle; Mechanoreceptor (Bergenheim, M. (734) 157)

Afferent, single
Ensemble coding; Stimulus discrimination; Simultaneous recording; Afferent, sensory; Afferent, muscle; Mechanoreceptor (Bergenheim, M. (734) 157)

Afferent stimulation
Zif268; Spinal cord; Postnatal development; Rat (Liang, F. (729) 246)

Afterdepolarization
Cat; Sensorimotor cortex; Bursting; Intracellular staining (Nishimura, Y. (727) 212)

Afterhyperpolarization
Ethanol; Tolerance; Dependence; Serotonin; 5-HT_{1A} receptor; 5-HT_4 receptor (Lau, A.H.L. (731) 12)

ω-Agatoxin
Prostaglandin; Bradykinin; Capsaicin; Nifedipine; ω-Conotoxin; Release; Voltage-sensitive calcium channel (Evans, A.R. (712) 265)

Age
Hippocampus; SNARF; Brain slice; pH regulation; Fluorescence (Roberts Jr., E.L. (735) 339)

Age-dependency
Long-term depression; Input-specificity; Heterosynaptic depression; Spiking threshold; NMDA receptor; Low-frequency stimulation (Staubli, U.V. (714) 169)

Aged rat
192-IgG-saporin; Spatial memory; Acoustic startle; Morris water maze; Medial septum (Bannon, A.W. (718) 25)

Ageing
Microvasculature; Amyloid peptide; Substance P; Endothelin (Khalil, Z. (736) 206)

Age-related
Olfaction; Reinnervation; Olfactory marker protein; Olfactory system; OMP; Plasticity; Behavioral recovery (Evers, S.M. (724) 129)

Aggregating brain cell culture
Developmental neurotoxicity; Mercury chloride; Monomethylmercury chloride; Microglia; Glial fibrillary acidic protein; Cell type-specific enzyme (Monnet-Tschudi, F. (741) 52)

Aggression
Dog; Serotonin; Cerebrospinal fluid; 5-HIAA; Dominance (Reisner, I.R. (714) 57)

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Flank marking; MPOA-AH; NMDA receptor; Non-NMDA receptor (Bamshad, M. (731) 213)

Corticosterone; 5-HT_{1A} mRNA; 8-OH-DPAT; Hippocampus; Wild house mice (Korte, S.M. (736) 338)

Aging
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Muscarinic receptor; Phospholipase C; Phosphoinositide; PLC-mRNA; In situ hybridization; Fisher rat; Brain; Signal transduction (Narang, N. (708) 143)

Human brain; Protein kinase C-αβ; Protein kinase C activity; G_i protein (Busquets, X. (710) 28)

Human brain; Alzheimer's disease; Pontine tegmentum; Immunocytochemistry (Van Zwieten, E.J. (711) 146)

Vasotocin; Vasopressin; Preoptic region; Sexual behavior; Avian brain; Quantitative analysis (Panzica, G.C. (712) 190)

Neuronal plasticity; GAP-43; Quantitative immunohistochemistry; Hippocampus; Cerebellum; Olfactory bulb; Cingulate cortex (Casoli, T. (714) 111)

AMPA; Receptor; Nucleus basalis; Cholinergic; Glutamate; Human; Alzheimer's disease (Ikonomovic, M.D. (716) 229)

Depression; Dexamethasone; Glucocorticoid; Serotonin transporter (Fumagalli, F. (719) 225)

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Dopamine D_1 receptor; Dopamine D_2 receptor; Rat; Quantitative autoradiography; Lateralisation (Giardino, L. (720) 235)

Fibronectin; mRNA; Alternative splicing; Brain; Rat; Food restriction (Dorner, H. (726) 198)

Dog; Diffuse plaque; Morphometry; Cluster analysis (Węgiel, J. (728) 20)

Serotonin 5-HT_{1A} receptor; EEDQ; 8-Hydroxy-DPAT; Receptor binding (Keck, B.J. (728) 130)

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Sigma (σ) agonists; PRE-084; Learning and memory; Passive avoidance; Y-maze; Watermaze; JO-1784 (igmesine); Senescence-accelerated mouse (SAM) (Maurice, T. (733) 219)

Transplantation; Sympathetic; Sensory; Cerebral blood vessel; Extracellular matrix; Autonomic (Gavazzi, I. (734) 167)

Transplant; Polymer; GDNF; Striatum; Dopamine; Behavior (Emerich, D.F. (736) 99)

DA1 receptor; DA2 receptor; Vestibular compensation; Rat; Quantitative receptor autoradiography (Giardino, L. (736) 111)

$GABA_A$ receptor complex; [^{3}H]Flunitrazepam binding; [^{3}H]Muscimol binding; Prefrontal cortex (Ruano, D. (738) 103)

Adriamycin; Doxorubicin; Motoneuron; Neurotoxicity; Equivalent cylinder; Cell size; Intracellular recording (Liu, R.-H. (738) 121)

Spectral analysis; Sleep regulation; Sleep homeostasis; Circadian rhythm; Slow wave; Sleep spindle (Landolt, H.-P. (738) 205)

N-Methyl-D-aspartate; Excitatory amino acid; Gonadotropin releasing hormone; Gonadotropin (Arias, P. (740) 234)

Aglycemia
Hippocampal slice; CA1 pyramidal cell; Fluorocitrate; Astrocyte; Anoxia; MK-801; Rat (Nakanishi, H. (732) 232)

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Tuberomamillary nucleus; Nucleolar organizer region; Estrous cycle; Hormonal manipulation; Activational effect (González-González, S. (736) 1)

Agonist
Ontogeny; Development; Membrane binding; NMDA receptor; Antagonist; Heterogeneity (Enomoto, R. (723) 100)

Agouti
Behavioral lateralization; Prolactin; Stress response; Inbred mouse (Waters, N.S. (724) 112)

Agranular insular cortex
Heart rate; Autonomic nervous system; Stress; Medial frontal cortex; Noradrenaline; Dopamine; β-Adrenoceptor (Funk, D. (741) 220)

AH / Type 2
Myenteric neuron; Pulsed nitrogen laser; Calbindin-D_{28}; Intracellular free calcium; ATP; Dogiel type II; S/Type 1; Enteric glia (Christofi, F.L. (725) 241)

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AIDS dementia complex
N-Methyl-D-aspartate receptor; Memantine; Amantadine; Heat shock protein (Tomitaka, S. (740) 1)

AII
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D-Ala^2, Glu^4 deltorphin II
NMDA receptor antagonist; MK-801; LY 235959; δ_2 opioid receptor agonist; Mice; Analgesic; Tolerance (Bhargava, H.N. (719) 56)

[D-Ala^2,*N*-Me-phe^4,Gly^5-ol]enkephalin
Pain; Trigeminal; Nociception; Analgesia; Dorsal horn; *N*-methyl-D-aspartic acid; [D-Pen^{2,5}]enkephalin (Zhang, K.-M. (719) 229)

Albino
Retinohypothalamic tract; Suprachiasmatic nucleus; Visual system; Congenic rat (Miller, A.M. (741) 348)

Albino rat
Correlation; Ipsilateral projection; Lateral geniculate nucleus; Superior colliculus; Double-labeling; Fluorescent tracer (Farid Ahmed, A.K.M. (706) 163)

Retina; Lateral habenular nucleus; Fluorescent retrograde tracer; Selective silver impregnation (Qu, T. (709) 251)

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Alcohol
SCH-23390; SKF-38393; Paired-pulse responses; Lateral septal nucleus; Dentate gyrus (Criado, J.R. (716) 192)

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Frontal lobe; Prefrontal cortex; Frontal cortex brain lesion; Serotonin; Dopamine; Nucleus accumbens; Raphe; Sucrose fading; Biological basis of reinforcement (Deckel, A.W. (723) 70)

ACTH; Corticotropin-releasing factor; Vasopressin; Hypothalamus; Rat (Rivier, C. (726) 1)

Chemoreflex; Excitatory amino acid; Rostral ventrolateral medulla; Vasomotor neuron; Rat (Sun, M.-K. (730) 182)

Astrocyte; Neuroglia; DNA synthesis; Brain atrophy; Microencephaly; Alcoholism; Fetal alcohol syndrome (Kane, C.J.M. (731) 39)

Alcoholism
Dopamine D_2 receptor gene; Naloxone; Opiate receptor; Frontal cortex; Caudate nucleus (Ritchie, T. (718) 193)

Astrocyte; Neuroglia; Alcohol; DNA synthesis; Brain atrophy; Microencephaly; Fetal alcohol syndrome (Kane, C.J.M. (731) 39)

Alcohol-nonpreferring rat
Medial septum; Vertical limb of the diagonal band of Broca; Hippocampus; Theta rhythm; Burst activity; Alcohol-preferring rat (Breen, T.E. (714) 156)

Alcohol-preferring (P) rat
RO19-4603; Flumazenil; ZK 93426; CGS 8216; $GABA_A$–BDZ; Benzodiazepine inverse agonist (June, H.L. (734) 19)

Alcohol-preferring rat
Medial septum; Vertical limb of the diagonal band of Broca; Hippocampus; Theta rhythm; Burst activity; Alcohol-nonpreferring rat (Breen, T.E. (714) 156)

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Differentiation; Ru28362; Hybridization, in situ; mRNA; Tissue culture (Nishi, M. (722) 190)

Mineralocorticoid receptor; Glucocorticoid receptor; Corticosterone; Synaptic plasticity; Long-term potentiation; CA1 (Pavlides, C. (738) 229)

AlF complex
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Alkalizing agent
Amyloid precursor protein; β-Amyloid; Alzheimer's disease; Processing; Endocytosis; Intracellular compartment (Schrader-Fischer, G. (716) 91)

Alkalosis
Heat shock; Intracellular pH; Monensin; HSP; Synthesis; C6 glioma (Neuhaus-Steinmetz, U. (724) 16)

Allodynia
N-methyl-D-aspartate (NMDA) receptor antagonist; Non-competitive; Hyperalgesia; Spontaneous pain; Nociception; Intraperitoneal (Qian, J. (715) 51)

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Analgesia; Capsaicin; C-fiber; Cold; Hyperalgesia; Mechanical stimulation; Neuropathic pain; Spinal cord injury (Hao, J.-X. (722) 177)

α_2-Adrenoceptor agonist; Central pain; Clonidine; Intrathecal; Neuropathic pain; Sedation; Spinal cord (Hao, J.-X. (736) 28)

Allopregnanolone
Acetylcholine release; Stress; Cortex; Hippocampus; Freely moving rat (Dazzi, L. (710) 275)

Allopurinol
Kainic acid; Ascorbic acid; Vitamin C; Free radical; Neuroprotection; Neurodegeneration (MacGregor, D.G. (727) 133)

Al maltolate
Neurofibrillary degeneration and phosphorylation sequence; Quantitative image analysis; Rabbit (Savory, J. (707) 272)

Alternation behavior
β-Amyloid peptide; Alzheimer's disease; Passive avoidance; Water-maze; Neurotoxicity; Amnesia model (Maurice, T. (706) 181)

Alternative splicing
Fibronectin; mRNA; Brain; Aging; Rat; Food restriction (Dorner, H. (726) 198)

Aluminum
Transferrin; Oligodendrocyte; Transferrin receptor; Iron; Manganese (Golub, M.S. (719) 72)

Confocal laser scanning microscopy; 2,7-Dichlorofluorescin diacetate; Laser microprobe mass spectrometry; Hippocampal neuron; Iron; Oxidative stress; Reactive oxygen species (Xie, C.X. (743) 271)

Alzene
Working and reference spatial memory; Passive avoidance; Medial septum; Essential fatty acid;

Linolenic/linoleic acid (Riekkinen Jr., P. (714) 118)

Alzheimer
Peripheral nerve; Leupeptin; Aprotinin; APP; Serpin; Deposit; Schwann; Anchoring junction; Desmosome (Moreno, R.D. (718) 13)

LRP; Amyloid precursor protien; Nexin; Amyloid; ApoE; Receptor associated protein (Knauer, M.F. (740) 6)

Alzheimer disease
Crosslink; Glycation; Neurofibrillary pathology; Paired helical filament; Solubility (Smith, M.A. (717) 99)

Nucleus basalis magnocellularis; Acetylcholine; Rat; Lesion; Ablation; Palmitate; Neuroplasticity; Membrane; Remodeling; Phospholipid; Phosphatidylcholine (De Micheli, E. (735) 36)

Alzheimer's disease
Human brain; Vasopressin binding sites; Linear $V1_a$-antagonist choroid plexus; Cerebrospinal fluid (Korting, C. (706) 151)

β-Amyloid peptide; Alternation behavior; Passive avoidance; Water-maze; Neurotoxicity; Amnesia model (Maurice, T. (706) 181)

Diazoxide; Dichlorofluorescin; Hydrogen peroxide; Levochromakalim; Pinacidil (Goodman, Y. (706) 328)

Acetylcholine; Arecoline; Atropine; Consolidation; Development; Memory; Passive-avoidance response; Pilocarpine; Scopolamine (Smith, R.D. (707) 13)

Amyloid P; β-Amyloid protein; Reactive astrocyte; Microglia; Inflammation (Schwab, C. (707) 196)

Tau; Human neuroblastoma culture; Neurofibrillary degeneration; Paired helical filament; Phosphorylation (Ko, L.-w. (707) 256)

Ischemia; Carotid ligation; Memory; CA1 (Pappas, B.A. (708) 50)

Human brain; Pontine tegmentum; Aging; Immunocytochemistry (Van Zwieten, E.J. (711) 146)

Amyloid plaque; Melanotransferrin; Transferrin receptor; β-Amyloid protein (Jefferies, W.A. (712) 122)

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Muscarinic receptor; Glutathione; Trolox; Free radical; Thiyl radical (Frey II, W.H. (714) 87)

Amyloid precursor protein; β-Amyloid; Processing; Alkalizing agent; Endocytosis; Intracellular compartment (Schrader-Fischer, G. (716) 91)

AMPA; Receptor; Nucleus basalis; Cholinergic; Glutamate; Human; Aging (Ikonomovic, M.D. (716) 229)

Neurocalcin; Calcium-binding protein; Brain; Synapse; Synaptophysin (Shimohama, S. (716) 233)

Melatonin; Circadian rhythm; Suprachiasmatic nucleus; Sleep–wake cycle; Delirium; Pineal gland; Light–dark cycle (Uchida, K. (717) 154)

Connexin43; Gap junction; Astrocyte; β/A4 Amyloid (Nagy, J.I. (717) 173)

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Choline acetyltransferase; Septum; Diagonal band of Broca; Nucleus basalis; Striatum (Gibbs, R.B. (720) 61)

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Apolipoprotein E; Brain extract; Enzyme linked immunosorbent assay (Pirttilä, T. (722) 71)

β-Amyloid; Interleukin-1; Inflammation; Indomethacin; Dexamethasone; Chloroquine (Fagarasan, M.O. (723) 231)

192-Saporin; Immunotoxin; Medial septum; Spatial memory; Animal model; Cholinergic basal forebrain (Walsh, T.J. (726) 69)

N-Methylscopolamine; Freezing storage time; Muscarinic receptor (Rodríguez-Puertas, R. (728) 65)

Transforming growth factor-β; β-Amyloid peptide; Neuroprotection; Primary hippocampal neuron; Neuroblastoma cell line (Ren, R.F. (732) 16)

Amyloid precursor protein; Immunocytochemistry; Primary neuronal culture; Growth cone; Phalloidin; Time-lapse microscopy (Storey, E. (735) 59)

Immunohistochemistry; Nuclear factor-κB; Human brain; Neuron; Hippocampal formation; Cerebral cortex (Terai, K. (735) 159)

Tau protein kinase I; Glycogen synthase kinase-3β (Shiurba, R.A. (737) 119)

Adenylyl cyclase; G-protein; cAMP-dependent protein kinase; Postmortem human brain (Bonkale, W.L. (737) 155)

β-Amyloid; Apoptosis; Necrosis; Neurotoxicity; DNA laddering (Li, Y.-P. (738) 196)

Acute phase protein; Ceruloplasmin; Copper; Huntington's disease; Parkinson's disease; Progressive supranuclear palsy (Loeffler, D.A. (738) 265)

Dystrophic neurite; Paired helical filament; Neurofilament; Hyper-phosphorylation; Senile plaque; Neuropathology (Su, J.H. (739) 79)

Protein phosphatase; τ Protein; Dephosphorylation; Schizophrenia; Neurofibrillary tangle (Gong, C.-X. (741) 95)

APP secretion; PI metabolism; AF102B; Various brain regions; M1 receptor (Pittel, Z. (742) 299)

Brain spectrin; Fodrin; Membrane cytoskeleton; Neuritic plaque; Amyloid plaque; Neurodegeneration (Sihag, R.K. (743) 249)

Amacrine cell
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Amantadine
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Amblyopia
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(+)-α-methyl-4-carboxyphenyl-glycine
t-ACPD; L(+)-2-amino-3-phosphonoproprionic acid; Carbachol; Hyperpolarization; Depolarization (Erdemli, G. (723) 1)

Amiloride
Na^+/H^+ antiporter; Methylisobutyl amiloride; Intracellular acid-base balance; 5-N substituted amiloride analog (Lin, C.-W. (731) 108)

Amiloride sensitivity
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Amino acid
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Dexamethasone; Hippocampus; Striatum; Population spike; Microdialysis; ACTH; Corticosterone (Ábrahám, I. (733) 56)

Amino acid receptor
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Amino acid transport
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Amino acid transporter
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3-Aminopropylarsonate; Epileptogenesis; Electrical kindling; *N*-Methyl-D-aspartate; Seizure; γ-Aminobutyric acid; Kainate; Amygdala (Abdul-Ghani, A.-S. (742) 305)

γ-Aminobutyric acid
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Fos-like immunoreactivity; Ventral tegmental nucleus; Mamillary body (Shim, I. (712) 173)

Somatosensory; Cortex; Inhibition; Microiontophoresis (Kyriazi, H.T. (712) 325)

Benzodiazepine receptor; Inverse agonist; Rat; Cerebellum; RU 34347; Flumazenil (Pringle, A.K. (715) 155)

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Serotonin; Substantia nigra; Deep piriform cortex; Bicuculline; Seizure (Pasini, A. (724) 84)

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Ethanol withdrawal; Neuronal firing; Desensitization; Clonic seizure; Inferior colliculus (N'Gouemo, P. (724) 200)

Hyperalgesia; Monoamine; Glycine; Neuropathy; Pain; Spinal cord (Satoh, O. (728) 27)

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Glycine; Periaqueductal gray; Spinal cord; Dorsal horn; Inhibition; Receptor; Serotonin (Peng, Y.B. (736) 189)

Hippocampus; Electron microscopy; Neuropeptide Y; Somatostatin (Commons, K.G. (738) 181)

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γ-Aminobutyric acid (GABA)-gated chloride flux
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γ-Aminobutyric acid inhibition
Cannabinoid; Substantia nigra; Striatonigral; Iontophoresis; Local drug delivery; 2-Hydroxypropyl-β-cyclodextrin (Tersigni, T.J. (733) 184)

γ-Aminobutyric acid turnover
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Aminoglutethimide
Self-stimulation; Corticosterone; Food restriction; Sensitization; Metyrapone (Abrahamsen, G.C. (726) 39)

Aminoglycoside
Hair cell; Regeneration; Drug resistance; Ototoxicity; Chicken (Hashino, E. (720) 172)

Aminoguanidine
Blood-brain barrier; Blood-cerebrospinal fluid barrier; Meningitis; Nitric oxide; Nitric oxide synthase; Neuroinflammation; Neurodegeneration (Boje, K.M.K. (720) 75)

2-Amino-5-phosphonovalerate
Paroxysmal discharge; Population spike; Paired pulse depression; Excitability; Disinhibition (Masukawa, L.M. (721) 132)

3-Aminopropylarsonate
2-Amino-4-arsonobutyrate; Epileptogenesis; Electrical kindling; *N*-Methyl-D-aspartate; Seizure; γ-Aminobutyric acid; Kainate; Amygdala (Abdul-Ghani, A.-S. (742) 305)

4-Aminopyridine
Depolarizing postsynaptic potential; Dopamine; Cesium; Tetraethylammonium (Altemus, K.L. (718) 212)

Spinal cord injury; Axon; Potassium channel; Tetraethylammonium (Fehlings, M.G. (736) 135)

Vagal; Heart; Cardiovascular; A current; Tetrodotoxin (Mihalevich, M. (739) 258)

Amisulpride
Nafadotride; Antipsychotic; Locomotor activity; Nucleus accumbens (Barik, S. (737) 347)

Amitriptyline
Antidepressant; Cyclic GMP; Guanylyl cyclase; 5-HT_3 receptor; NG 108-15 cells; Serotonin (5-HT) (Shimizu, M. (741) 89)

Ammonia
Muscimol; Flunitrazepam; $GABA_A$ receptor; Liver failure (Ha, J.-H. (720) 35)

Ammon's horn
Excitatory amino acid receptor; Dentate gyrus; Mossy fiber (Blümcke, I. (736) 217)

Amnesia
D-Cycloserine; Milacemide; NMDA/glycine site; β-Amyloid (Maurice, T. (731) 249)

Amnesia model
β-Amyloid peptide; Alzheimer's disease; Alternation behavior; Passive avoidance; Water-maze; Neurotoxicity (Maurice, T. (706) 181)

cAMP
T3; Estrogen; Pituitary D-2 receptor; Prolactin; Thyroxine; Thyrotrophin (Nedvídková, J. (712) 148)

$GABA_B$; Receptor; Brain slice; Coincident signaling (Cunningham, M.D. (720) 220)

Opioid; Phosphorylation; Tolerance; Dependence; Opiate receptor; Protein kinase C (Wang, L. (723) 61)

Adenylate cyclase; ACTH; Cancer; Pituitary gland; Protein kinase C; Receptor desensitization; Receptor down-regulation (Dieterich, K.D. (733) 113)

BQ-123; ET-1; ET_A; Hematoma; Vascular reactivity; Piglet (Yakubu, M.A. (734) 149)

cyclic AMP
Brain-derived neurotrophic factor; Nerve growth factor; TrkB receptor; Cortex; Protein kinase C (Barnea, A. (732) 52)

diB-cAMP
Protein kinase A; Forskolin; Sp-cAMPS; Macropatch; Miniature end-plate current; Tadpole; *Bufo marinus* (Quiñonez, M. (737) 327)

AMPA
N-Methyl-D-aspartate; AP-7; NBQX; Microinjection; Phrenic nerve (Chitravanshi, V.C. (715) 104)

Receptor; Nucleus basalis; Cholinergic; Glutamate; Human; Aging; Alzheimer's disease (Ikonomovic, M.D. (716) 229)

Dog; Glutamate receptor; Ischemia; Kainate; NMDA; Primate brain (Hof, P.R. (723) 77)

Heat shock; Phencyclidine; Excitotoxicity; Quisqualate; Kainate; Hippocampus; Rat (Sharp, J.W. (728) 215)

NMDA; Kainate; Glutamate; Monkey; Pain; Microiontophoresis; Neurotransmission (Dougherty, P.M. (728) 267)

Cyclothiazide; Edema; Purkinje cell; Cerebellum; Non-NMDA; Desensitization (Strahlendorf, J.C. (729) 197)

Methamphetamine; Dopamine; Glutamate; Schizophrenia; Stereotypy (Larson, J. (738) 353)

cAMP analog
Long-term memory; Learning; Protein kinase A; Habituation; Crustacea (Romano, A. (735) 131)

AMPA receptor
Kindling; Calcium permeability; Anticonvulsant; Joro spider toxin; 1-naphthylacetyl spermine (Takazawa, A. (706) 173)

AMPA-selective
Glutamate; Receptor; Retina; Immunocytochemistry; Cat (Qin, P. (710) 303)

cAMP-dependent protein kinase
Alzheimer's disease; Adenylyl cyclase; G-protein; Postmortem human brain (Bonkale, W.L. (737) 155)

Amperometric detection
Varicosity; PC12 cell; Exocytosis; Nerve growth factor; Differentiation; Microelectrode (Zerby, S.E. (712) 1)

Amphetamine
Conditioned place preference; Ventral pallidum; Reward; Locomotor activity; Cocaine; Dopamine; Procaine; Nucleus accumbens (Gong, W. (707) 64)

APEC; Adenosine; c-Fos; CHA; Nucleus accumbens; Striatum (Turgeon, S.M. (707) 75)

Amygdala; Clozapine; Haloperidol; Single-unit recording in freely moving rats (Wang, Z. (711) 64)

3-Nitropropionic acid; Neurotoxicity; Dopamine; Caudate-putamen (Bowyer, J.F. (712) 221)

Sex difference; Sexual dimorphism; c-Fos; Striatum; Basal ganglia; Dopamine (Castner, S.A. (712) 245)

Globus pallidus; Glutamate; Striatum; Fos; Recovery; Frontal cortex; Medial agranular cortex; Dopamine; Neglect; Immediate early gene (Vargo, J.M. (716) 207)

Behavioral sensitization; Cholinergic; Cocaine; Mice; Nicotinic; Stereotypy (Karler, R. (725) 192)

DNQX; Ventral tegmental area; Locomotor activity (Dalia, A. (728) 209)

Microdialysis; Striatum; Dopamine; DOPAC; Time course; Rat (Holson, R.R. (739) 301)

D-Amphetamine
R(+)-8-OH-DPAT; Serotonin; Dopamine; 5-HT_{1A} receptor; Prefrontal cortex; Anxiety; Microdialysis; Rat (Kuroki, T. (743) 357)

Amphetamine sensitization
Dopamine receptor; *N*-Methyl-D-aspartate (NMDA) receptor; Caldesmon; Calmodulin-binding protein; Glutamate (Gnegy, M.E. (734) 35)

Amphibian
Frog; Olfactory system; Accessory olfactory system; Extra-bulbar olfactory system; Acoustic system; Lectin; Soybean agglutinin (Meyer, D.L. (722) 222)

NADPH-diaphorase; Nitric oxide; Catecholamine; Evolution (González, A. (727) 49)

cAMP production
Adenylate cyclase activity; Adrenocorticotropin; Corticotropin-releasing factor; Pituitary; Receptor downregulation (Dieterich, K.D. (710) 287)

Amygdala
Stria terminalis; Memory modulation; Dexamethasone; Adrenalectomy; Inhibitory avoidance; Water maze (Roozendaal, B. (709) 243)

Amphetamine; Clozapine; Haloperidol; Single-unit recording in freely moving rats (Wang, Z. (711) 64)

Anxiety; Fos; Stress; Anxiety; Animal model; Medial prefrontal cortex; Lateral septum; Hypothalamus; Limbic cortex (Duncan, G.E. (713) 79)

Cocaine; Memory; Lesion; One-trial inhibitory avoidance (Cestari, V. (713) 286)

ORG 2766; Locomotion; Behavior; Hyperactivity (Van Rijzingen, I.M.S. (717) 200)

γ-Aminobutyric acid; Hypothalamus; Blood pressure; Heart rate; Rat (Gören, Z. (722) 118)

Morphine; Glucose utilization; 2-Deoxyglucose; Locus coeruleus; Metabolic rate (Kraus, M.A. (724) 33)

N-Methyl-D-aspartate; 3-(2-Carboxypiperazine-4-yl)propyl-1-phosphonic acid; Kindling; Caudate-putamen; Substantia nigra; Thalamus; Cerebral cortex (Osonoe, M. (728) 242)

Serotonin; Interneuron; Dentate gyrus; Tenia tecta; Septum (Morales, M. (731) 199)

Norepinephrine; Clonidine; Idazoxan; Locus ceruleus; Microinfusion; Kindling (Shouse, M.N. (731) 203)

5-HT_{1A}; Benzodiazepine; 8-OH-DPAT; Midazolam; Plus-maze; Social interaction (Gonzalez, L.E. (732) 145)

Anxiety; Fear; Locomotor activity; Fear-potentiated startle; Neuropeptide; Rat (Frankland, P.W. (733) 129)

Kindling; Kindling antagonism; Piriform cortex; Perirhinal cortex; Insular cortex; Seizure suppression (Mohapel, P. (733) 211)

Vagus; Thyrotropin-releasing hormone; Gastric contractility (Morrow, N.S. (735) 141)

Serotonin; Stress; Feeding; Behavioral activation; Hippocampus; Striatum; Frontal cortex (Rueter, L.E. (739) 57)

Substance P; Antidepressant; Striatum; Substantia nigra (Shirayama, Y. (739) 70)

Macaque; Monkey; Taste; Satiety; Flavor (Yan, J. (740) 193)

Analgesia; Morphine; β-Endorphin; Periaqueductal gray; μ Opioid receptor; δ_2 Opioid receptor (Pavlovic, Z.W. (741) 13)

Central nucleus; Basolateral nucleus; Ibotenic acid; Reward reduction; Behavioral contrast; Frustration effect; Crespi effect (Salinas, J.A. (742) 283)

3-Aminopropylarsonate; 2-Amino-4-arsonobutyrate; Epileptogenesis; Electrical kindling; *N*-Methyl-D-aspartate; Seizure; γ-Aminobutyric acid; Kainate (Abdul-Ghani, A.-S. (742) 305)

Corticotropin-releasing factor; Fos; Seizure; Hypothalamus; Stria terminalis (Piekut, D. (743) 63)

Kindling; Thalamus; Fatty acid; Palmitate; Lipid; Deoxyglucose; Brain; Plasticity; Seizure; Phospholipid; Phosphatidylcholine; Activation (Arai, T. (743) 131)

Amygdala-kindling
Perirhinal cortex; Field potential, in vitro; Brain slice; Epilepsy (Matsumoto, Y. (741) 44)

Amygdalo-hippocampal interaction
Basolateral amygdala; Dentate gyrus; Field potential; Paired-pulse facilitation; Long-term potentiation; Anesthetized rat (Ikegaya, Y. (718) 53)

Amylin
Adrenomedullin; Calcitonin; Calcitonin gene-related peptide; Receptor; Astrocyte; Hybrid cell (Zimmermann, U. (724) 238)

Amyloid
LRP; Amyloid precursor protien; Nexin; ApoE; Alzheimer; Receptor associated protein (Knauer, M.F. (740) 6)

β-Amyloid
Amyloid precursor protein; Alzheimer's disease; Processing; Alkalizing agent; Endocytosis; Intracellular compartment (Schrader-Fischer, G. (716) 91)

Microtuble-associated protein 2; β-Amyloid precursor protein; MK-801; Traumatic brain injury; Dendrite; Axon (Lewén, A. (719) 161)

Alzheimer's disease; Interleukin-1; Inflammation; Indomethacin; Dexamethasone; Chloroquine (Fagarasan, M.O. (723) 231)

D-Cycloserine; Milacemide; NMDA/glycine site; Amnesia (Maurice, T. (731) 249)

Alzheimer's disease; Apoptosis; Necrosis; Neurotoxicity; DNA laddering (Li, Y.-P. (738) 196)

Constructional apraxia; Praxis; Dystrophic neurite; AT8; Neurofibrillary tangle; Occipital cortex; Parietal lobe (Nielson, K.A. (741) 284)

Amyloid β peptide
c-Fos transcription factor; Antisense oligodeoxynucleotides; Cell death; Hippocampal cell line; Immunocytochemistry (Gillardon, F. (706) 169)

Amyloid P
Alzheimer's disease; β-Amyloid protein; Reactive astrocyte; Microglia; Inflammation (Schwab, C. (707) 196)

Amyloid peptide
Ageing; Microvasculature; Substance P; Endothelin (Khalil, Z. (736) 206)

β-Amyloid peptide
Alzheimer's disease; Alternation behavior; Passive avoidance; Water-maze; Neurotoxicity; Amnesia model (Maurice, T. (706) 181)

Transforming growth factor-β; Alzheimer's disease; Neuroprotection; Primary hippocampal neuron; Neuroblastoma cell line (Ren, R.F. (732) 16)

Amyloid plaque
Alzheimer's disease; Melanotransferrin; Transferrin receptor; β-Amyloid protein (Jefferies, W.A. (712) 122)

Brain spectrin; Fodrin; Membrane cytoskeleton; Alzheimer's disease; Neuritic plaque; Neurodegeneration (Sihag, R.K. (743) 249)

Amyloid precursor protein
β-Amyloid; Alzheimer's disease; Processing; Alkalizing agent; Endocytosis; Intracellular compartment (Schrader-Fischer, G. (716) 91)

Alzheimer's disease; Immunocytochemistry; Primary neuronal culture; Growth cone; Phalloidin; Time-lapse microscopy (Storey, E. (735) 59)

Cortical neuronal culture; Immunocytochemistry; Confocal laser microscopy; Adhesion patch; β_1-Integrin (Storey, E. (735) 217)

β-Amyloid precursor protein
Microtuble-associated protein 2; β-Amyloid; MK-801; Traumatic brain injury; Dendrite; Axon (Lewén, A. (719) 161)

Amyloid precursor protien
LRP; Nexin; Amyloid; ApoE; Alzheimer; Receptor associated protein (Knauer, M.F. (740) 6)

β-Amyloid protein
Alzheimer's disease; Amyloid P; Reactive astrocyte; Microglia; Inflammation (Schwab, C. (707) 196)

Alzheimer's disease; Amyloid plaque; Melanotransferrin; Transferrin receptor (Jefferies, W.A. (712) 122)

Nitric oxide; Inducible nitric oxide synthase; Neurotoxicity; Microglial cells; Interferon-γ; Alzheimer's disease (Ii, M. (720) 93)

Amyotrophic lateral sclerosis
N-Methyl-D-aspartate; Glutamate receptor; mRNA (Samarasinghe, S. (727) 233)

Anabolic steroid
Radial-arm maze; Delayed non-match-to-sample; 17α-Methyltestosterone; Methandrostenolone; Testosterone cypionate (Smith, S.T. (737) 313)

Anaesthetic
c-*fos*; Auditory; Halothane; Anechoic; Guinea pig (Cody, A.R. (728) 72)

Analgesia
Vagus nerve; Spinal cord; Vagina; Cervix; Vaginocervical stimulation; Pupil dilatation (Komisaruk, B.R. (708) 128)

Blood–brain barrier; Dalargin; Nanoparticle; Poly(butylcyanoacrylate); Mouse (Schröder, U. (710) 121)

Pain; ON cell; OFF cell; Nucleus raphe magnus; Blood pressure (Thurston, C.L. (717) 81)

Ventral tegmental area; Naltrexone methylbromide; Formalin test; Dopamine; Footshock stress; Opioid (Altier, N. (718) 203)

Pain; Trigeminal; Nociception; Dorsal horn; *N*-methyl-D-aspartic acid; [D-Ala^2,*N*-Me-phe^4,Gly^5-ol]enkephalin; [D-Pen^{2,5}]enkephalin (Zhang, K.-M. (719) 229)

Nociception; Pain; Antinociception; Noxious stimulus; Spinal reflex; Spinal cord (Romita, V.V. (720) 45)

Acetylcholine; Atropine; Intrathecal; Methysergide; Naloxone; Noradrenaline; Serotonin; Spinal cord; Yohimbine (Fang, F. (722) 95)

Thalamus neuron; Morphine; Morphine-6-glucuronide; Intravenous; Intrathecal (Jurna, I. (722) 132)

Allodynia; Capsaicin; C-fiber; Cold; Hyperalgesia; Mechanical stimulation; Neuropathic pain; Spinal cord injury (Hao, J.-X. (722) 177)

Ultrastructure; Anatomy; Neurotransmitter; Afferent (Cheng, P.Y. (731) 141)

Met-enkephalin; Tachykinin; Pain; Antinociception; Naltrindole (Zachariou, V. (736) 305)

Morphine; β-Endorphin; Amygdala; Periaqueductal gray; μ Opioid receptor; δ_2 Opioid receptor (Pavlovic, Z.W. (741) 13)

Analgesic
NMDA receptor antagonist; MK-801; LY 235959; D-Ala^2, Glu^4 deltorphin II; δ_2 opioid receptor agonist; Mice; Tolerance (Bhargava, H.N. (719) 56)

Anamniote
NADPH-diaphorase; Nitric oxide synthase; Olfactory system (Porteros, A. (724) 67)

Anatomy
Immediate early gene; c-*fos*; Nociception; Cardiovascular (Allen, G.V. (715) 125)

Ultrastructure; Analgesia; Neurotransmitter; Afferent (Cheng, P.Y. (731) 141)

Taste; Gustatory; DiI; Biotinylated dextran; Nucleus tractus solitarius; Projection neuron (Williams, J.B. (737) 231)

Anchoring junction
Peripheral nerve; Leupeptin; Aprotinin; APP; Serpin; Deposit; Schwann; Desmosome; Alzheimer (Moreno, R.D. (718) 13)

Androgen
Progestagen; 5α-Reductase; Glial fibrillary acidic protein; Astrocyte; Rat; Central nervous system (Melcangi, R.C. (711) 10)

Brain; Marking; Preference; Sexual behavior; Ultrasonic vocalizations; Urine; Mouse (Sipos, M.L. (729) 29)

Seasonal; Neural plasticity; Songbird (Smith, G.T. (734) 79)

Spinal nucleus of the bulbocavernosus; Gerbil; Cell death (Forger, N.G. (735) 119)

Anechoic
c-*fos*; Auditory; Anaesthetic; Halothane; Guinea pig (Cody, A.R. (728) 72)

Anemone toxin II
Saxitoxin-analog C3; Voltage-dependent sodium channel (Castillo, C. (733) 231)

Veratridine; Voltage-dependent sodium channel (Castillo, C. (733) 243)

Anesthesia
Magnetoencephalography; Somatosensory cortex; Human; Movement-related magnetic field; Movement-evoked field I; Motor field (Kristeva-Feige, R. (714) 201)

Visceral pain; Estrous cycle; Colonic distension; Nociception; Rat; Halothane (Sapsed-Byrne, S. (742) 10)

Anesthetic
Identified neuron; FMRFamide; Cell culture; *Lymnaea stagnalis*; Synaptic transmission (Spencer, G.E. (714) 38)

Anesthetized rat
Basolateral amygdala; Dentate gyrus; Field potential; Paired-pulse facilitation; Long-term potentiation; Amygdalo-hippocampal interaction (Ikegaya, Y. (718) 53)

Somatosensory cortex; Periodic medial lemniscus stimulation; Field potential; Phase-locking; Chaos; One-dimensional strobomap; Strange attractor; Period doubling-bifurcation; Correlation dimension; Lyapunov exponent (Ishizuka, S. (723) 46)

Angiotensin
Calcium current; Cell culture; Retina; Retinal ganglion cells; Neuromodulation (Guenther, E. (718) 112)

Angiotensin II
Uni- or bi- AV3V lesion; c-*fos*; Vasopressin neuron; Oxytocin neuron; Dehydration (Xu, Z. (713) 36)

Opioid; μ Opioid receptor; Morphine analgesia; Glucoprivation (Leventhal, L. (719) 78)

Noradrenergic A_2 cell group; Adrenergic C_2 cell group; Dorsal vagal complex; Circumventricular organ; Baroreceptor reflex; Central cardiovascular regulation (Ciriello, J. (726) 227)

Subfornical organ; Organum vasculosum laminae terminalis; Sodium depletion; Water intake (Rowland, N.E. (728) 90)

Atrial natriuretic peptide; c-*fos*; Immediate–early gene; Drinking behavior; C-type natriuretic peptide (Zhu, B. (734) 55)

Angiotensin IV
Cerebral ischemia; Neuronal death; Hippocampus; Learning; Memory; LY231617; Circular water maze; Passive avoidance conditioning; Rat (Wright, J.W. (717) 1)

Angiotensin receptor
Hypothalamus; Circumventricular organ; Subfornical organ; Adrenal gland; DUP-753; PD-123319; CGP-42112A; Domestic mallard; Drinking; Bird; Osmoregulation (Schäfer, F. (711) 118)

Animal model
1(*R*); 2(*N*)-Dimethyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline (*N*-methyl-(*R*)-salsolinol); Parkinson's disease; Dopamine; Tyrosine hydroxylase; 6,7-Dihydroxyisoquinolinium ion (Naoi, M. (709) 285)

Anxiety; Fos; Stress; Anxiety; Medial prefrontal cortex; Lateral septum; Amygdala; Hypothalamus; Limbic cortex (Duncan, G.E. (713) 79)

Electroconvulsive shock; Seizure; Rat; Epilepsy; Inbred rat strain; Spontaneously hypertensive rat (Francis, A. (721) 150)

192-Saporin; Immunotoxin; Medial septum; Spatial memory; Alzheimer's disease; Cholinergic basal forebrain (Walsh, T.J. (726) 69)

Animal model of depression
Locus coeruleus; Selective breeding; Swim test; Norepinephrine; Dopamine (Scott, P.A. (725) 217)

Animal model of Parkinson's disease
Methamphetamine; Dopaminergic neurotoxicity; Nigral cell loss; Substantia nigra neuropathology; Mice; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine) (Sonsalla, P.K. (738) 172)

Annelid
NOS; Identified neuron; Central nervous system; Leech; *Hirudo medicinalis*; Invertebrate (Leake, L.D. (723) 115)

Anorectic agent
Serotonin; Paraventricular hypothalamus; Cholecystokinin; Drug tolerance; Escalating dose regimen (Li, B.-H. (728) 188)

Anorexia
Lipopolysaccharide; Depression; Saccharin preference; Sexual behavior; Body weight; Social exploration; Open-field test; Tricyclic antidepressant; Imipramine (Yirmiya, R. (711) 163)

Anorexia nervosa
Adrenergic receptor; Hypothalamus; Septal-hippocampal pathway; Tyrosine; Cognitive function; Mouse; Eight-arm maze; Diet restriction (Avraham, Y. (732) 133)

Anoxia
Reperfusion injury; Reoxygenation; Ischemia; Axon; Electron probe X-ray microanalysis; Peripheral nerve; Elemental composition (Lehning, E.J. (715) 189)

Fiber-optic plate; Video microscopy; Fluorescence microscopy; Calcium measurement; Hippocampus; In vivo experiment (Hirano, M. (732) 61)

Hippocampal slice; CA1 pyramidal cell; Fluorocitrate; Astrocyte; Aglycemia; MK-801; Rat (Nakanishi, H. (732) 232)

Dopamine; Monoamine; Striatum; Microdialysis; Immature brain; Hypoxia (Nakajima, W. (740) 316)

Anoxic terminal negativity
Hypoxia; Human brain slice; DC potential (Köhling, R. (741) 174)

Antagonist
Alcohol; ACTH; Corticotropin-releasing factor receptor; Hypothalamus; Rat (Rivier, C. (721) 83)

Ontogeny; Development; Membrane binding; NMDA receptor; Agonist; Heterogeneity (Enomoto, R. (723) 100)

Anterior cingulate
Positron emission tomography; Glucose metabolism; Attention; Thyroid receptor β (Matochik, J.A. (723) 23)

Anterior commissural nucleus
Calretinin; Oxytocin; Vasopressin; Supraoptic nucleus; Paraventricular nucleus; Suprachiasmatic nucleus (Arai, R. (735) 154)

Anterior hypothalamus
Preoptic area; Thermosensitive neuron; Thermosensitivity; Wakefulness; Non-rapid eye movement sleep (Alam, Md.N. (718) 76)

Preoptic area; Brain microdialysis, in vivo; Endotoxin; Body temperature; Prostaglandin E_2; Neuroimmunomodulation; Cytokine (Sehic, E. (726) 160)

Melatonin; Microdialysis; Radioimmunoassay; Siberian hamster; Pharmacokinetic (Ferreira, S.A. (733) 318)

Anterior thalamus
Retina; Ganglion cell; Fluorescent tracer (Farid Ahmed, A.K.M. (729) 119)

Anterograde degeneration
Prefrontal cortex; Thalamus; Ultrastructure; Synapse; Golgi-EM (Kuroda, M. (708) 185)

Anterograde tracing
Locus coeruleus; Sacral parasympathetic nucleus; Corticotropin-releasing hormone; Biocytin; Retrograde tracing (Valentino, R.J. (732) 1)

Thalamus; Retrograde tracing; Biocytin; Dextran-tetramethylrhodamine; Teleostei; Gymnotiformes (Zupanc, G.K.H. (739) 201)

Anteroventral third ventricle
Paraventricular nucleus of the hypothalamus; Supraoptic nucleus; Nucleus of the solitary tract; Cardiovascular regulation; Subfornical organ; Organum vasculosum of the laminae terminalis (Hochstenbach, S.L. (713) 17)

Anteroventral third ventricle (AV3V) lesion
Serotonin; Blood pressure; Central nervous system (Muntzel, M.S. (714) 104)

Anti-adhesive
Extracellular matrix; Osteonectin (Mendis, D.B. (730) 95)

Anti-adhesive glycoprotein
Extracellular matrix; Follistatin module (Mendis, D.B. (713) 53)

Antibody microprobe
Dynorphin $A_{(1-8)}$; Peripheral inflammation; Spinal cord; Release (Riley, R.C. (710) 131)

Anticipatory behavior
Ventral tegmental area; Opioid; Sexual behavior; Motivation; Reward (Van Furth, W.R. (729) 20)

Anticipatory postural adjustment
Arm movement; H-reflex; Human (Kasai, T. (714) 125)

Anticonvulsant
Kindling; AMPA receptor; Calcium permeability; Joro spider toxin; 1-naphthylacetyl spermine (Takazawa, A. (706) 173)

Thyrotropin-releasing hormone; Calcium; Glutamate; Indo-1; Imaging (Koenig, M.L. (730) 143)

Epilepsy; CGP 37849; CGP 39551; Excitatory amino acid antagonist; Tolerance; Audiogenic seizure; Genetically epilepsy-prone rat (De Sarro, G. (734) 91)

Epilepsy; γ-Aminobutyric acid; Glutamate decarboxylase (Löscher, W. (735) 208)

Anticonvulsant drug
Glutamate; Epilepsy; Rat; Hippocampus; Limbic system (Löscher, W. (725) 252)

Antidepressant
$GABA_B$ receptor; $GABA_A$ receptor; Forced swim test; Rat (Nakagawa, Y. (709) 215)

Astrocyte; Calcium; Lithium; Noradrenaline (Chen, Y. (711) 245)

Brain; Cytochrome P450; CYP2D; Metabolism; Inhibitor (Sequeira, D.J. (738) 24)

Substance P; Amygdala; Striatum; Substantia nigra (Shirayama, Y. (739) 70)

Amitriptyline; Cyclic GMP; Guanylyl cyclase; $5\text{-}HT_3$ receptor; NG 108-15 cells; Serotonin (5-HT) (Shimizu, M. (741) 89)

Antidepressant drug
Cerebral laterality; Biogenic amine; Medial prefrontal cortex; Nucleus accumbens; Striatum (Carlson, J.N. (707) 122)

Antidiuretic action
Tachykinin; NK-3 receptor; Paraventricular nucleus; Vasopressin V2 receptor; Senktide (Eguchi, T. (743) 49)

Antidiuretic hormone
Brain vasopressin receptor; Vasopressin antagonist; OPC-31260; 1-Desamino-8-D-arginine vasopressin; Increased plasma osmolality (Liu, H.-W. (719) 14)

Anti-emetic action
Raphe nuclei; Brainstem midline (Miller, A.D. (737) 51)

Antiepileptic drug
EL mouse; Epilepsy; Zonisamide; Drug interaction; Serum concentration; Brain concentration (Nagatomo, I. (731) 190)

Antigen retrieval
Vasopressin; Vasoactive intestinal polypeptide; Suprachiasmatic nucleus; Microwave; Morphometry (Zhou, J.-N. (742) 334)

Antinociception
Dynorphin(1–8); Nociception; Thermal stimulation; Spinal cord; Tachykinin (Zachariou, V. (706) 80)

Nucleus raphe magnus; Nucleus reticularis gigantocellularis pars α; $GABA_B$ receptor; GABA; CGP 35348 (Thomas, D.A. (718) 129)

Periaqueductal gray; Raphe nucleus; Spinal trigeminal caudal subnucleus; Substance P; Rat (Li, Y.-Q. (719) 219)

Nociception; Pain; Analgesia; Noxious stimulus; Spinal reflex; Spinal cord (Romita, V.V. (720) 45)

Substance P; NMDA; Opioid; Intrathecal administration; Spinal cord (Masuyama, T. (722) 200)

Neuropeptide Y; Neuropeptide Y receptor; Feeding; Opioid receptor; α_2-Adrenoceptor; Mouse (Broqua, P. (724) 25)

Nitrous oxide; Inbred mouse strains; Quantitative trait loci (Quock, R.M. (725) 23)

Non-steroidal antiinflammatory drug; Dipyrone; Naloxone; Opiates; Periaqueductal gray; Off-cell; On-cell; Tail flick (Tortorici, V. (725) 106)

Formalin test; Tolerance; NMDA receptor; Glycine co-agonist site (Lutfy, K. (731) 171)

c-Fos; Spinal cord; Morphine; Carrageenin; μ-Opioid receptor; β-Funaltrexamine (Honoré, P. (732) 242)

Galanin receptor antagonist; Clonidine; Desipramine; Dipyrone; Fenfluramine (Selve, N. (735) 177)

Met-enkephalin; Tachykinin; Analgesia; Pain; Naltrindole (Zachariou, V. (736) 305)

Pain; Medullary dorsal horn; Trigeminal nucleus caudalis; Opioid receptors; Nociception (Wang, X.-M. (739) 235)

Morphine; Ibogaine; Noribogaine (Bagal, A.A. (741) 258)

Intrathecal; NMDA receptor/glycine site; Non-NMDA receptor; Tail flick assay; Formalin test (Lutfy, K. (743) 17)

Tonic pain; Chronic pain; Brain stimulation; Stimulation-produced analgesia; Limbic system (Fuchs, P.N. (743) 116)

Antiorthostatic restraint
Intracerebroventricular pressure; Motor activity; Orthostatic restraint; Rat (Maurel, D. (736) 165)

Antioxidant
In vivo; Rat brain; Oxidative stress; Ascorbic acid; Uric acid; Lipid peroxidation; Malonaldehyde (Waterfall, A.H. (712) 102)

Brain neuron; *Ginkgo biloba* extract; Hydrogen peroxide; Oxidative stress (Oyama, Y. (712) 349)

Granule neuron; Glutamate toxicity; Free radical; Neuroprotection; Enzyme inhibitor; Necrosis; Apoptosis (Ciani, E. (728) 1)

Glutathione; Cochlea; Vestibular endorgan; Guinea pig; Immunocytochemistry; Freeze substitution (Usami, S.-i. (743) 337)

Antioxidant enzyme
Oxidative stress; Neuroleptic drug; Cytotoxicity; PC12 (Behl, C. (717) 193)

Anti-P70 antibody
P70; Negative slope resistance; Potassium current; Bursting activity; *Euhadra* neuron (Onozuka, M. (716) 187)

α_2-Antiplasmin
Plasminogen; Plasmin; Long-term potentiation; Short-term potentiation; NMDA receptor; Hippocampal slice; Rat (Mizutani, A. (739) 276)

Antipsychotic
Neurotensin; Dopamine; Neuropeptide; Extrapyramidal; Limbic; Microdialysis (Wagstaff, J.D. (721) 196)

Amisulpride; Nafadotride; Locomotor activity; Nucleus accumbens (Barik, S. (737) 347)

Antisense oligodeoxynucleotides
Amyloid β peptide; c-Fos transcription factor; Cell death; Hippocampal cell line; Immunocytochemistry (Gillardon, F. (706) 169)

Antisense oligonucleotide
Heat-shock; Stress protein; Survival; Neuroprotection; Cultured neuron (Sato, K. (740) 117)

Neurite sprouting; Nerve cell culture; HPC-1; Syntaxin; Dorsal root ganglion neuron; Retinal ganglion cell (Yamaguchi, K. (740) 185)

Antiserum
Vasopressin; Oxytocin; Hippocampus; Septum; Social recognition (Van Wimersma Greidanus, Tj.B. (713) 153)

Anura
Nitric oxide synthase; NADPH diaphorase; Brain; Frog (Brüning, G. (741) 331)

Anxiety
Benzodiazepine; Lateral septum; Medial septum; Midazolam; Ro 15-1788 (Pesold, C. (710) 161)

Benzodiazepine withdrawal; Stress; γ-Aminobutyric acid (GABA)-gated chloride flux; Plus maze; Forced swim (Martijena, I.D. (712) 239)

Anxiety; Fos; Stress; Animal model; Medial prefrontal cortex; Lateral septum; Amygdala; Hypothalamus; Limbic cortex (Duncan, G.E. (713) 79)

Fos; Stress; Anxiety; Animal model; Medial prefrontal cortex; Lateral septum; Amygdala; Hypothalamus; Limbic cortex (Duncan, G.E. (713) 79)

Hippocampus; Lateral septum; Spatial memory; Chlordiazepoxide; Lesion (Farber, H.T. (725) 257)

Fear; Locomotor activity; Amygdala; Fear-potentiated startle; Neuropeptide; Rat (Frankland, P.W. (733) 129)

Basolateral nucleus; Carbamazepine; Epilepsy; Limbic system (Ebert, U. (733) 193)

Stress; Heart rate; Blood pressure; Adrenal hormone; Bicuculline (Keim, S.R. (739) 46)

WKHA rat; Inbred rat strain; Stress; Locomotor activity; Factor analysis; Neuroendocrinology; F2 intercross (Courvoisier, H. (743) 77)

R(+)-8-OH-DPAT; D-Amphetamine; Serotonin; Dopamine; $5\text{-}HT_{1A}$ receptor; Prefrontal cortex; Microdialysis; Rat (Kuroki, T. (743) 357)

Anxiolytic
Brainstem; Taste; Appetite; Palatability; Food intake; Feeding; Benzodiazepine; Hyperphagia; Diazepam; Cerebral ventricle; Hindbrain (Peciña, S. (727) 22)

Aortic depressor nerve
Neurophypophysis; Paraventricular nucleus of the hypothalamus; Central cardiovascular regulation; Fluid balance; Hypertension (Ciriello, J. (739) 52)

AP-7
AMPA; *N*-Methyl-D-aspartate; NBQX; Microinjection; Phrenic nerve (Chitravanshi, V.C. (715) 104)

AP-1
Ciliary neurotrophic factor; Neurotrophic factor; Phorbol 12-myristate 13-acetate; Astrocyte (Nagao, H. (719) 23)

Apamin
Neurotoxin; Sleep; Waking; Insomnia; Ca^{2+}-activated K^+ channel (Gandolfo, G. (736) 344)

APB
Rabbit retina; Rod pathway; AII; Scotopic; Narrow-field bistratified amacrine (Jin, X.T. (708) 191)

APEC
Adenosine; Amphetamine; c-Fos; CHA; Nucleus accumbens; Striatum (Turgeon, S.M. (707) 75)

Apical dendritic bundle / cluster
Medial prefrontal cortex; Cortical module; Pyramidal neuron; Limbic/autonomic cortex (Gabbott, P.L.A. (730) 75)

Apical membrane
Bullfrog; Patch-clamp; Sodium-dependent potassium channel; Taste cell; Transduction (Miyamoto, T. (715) 79)

Aplysia californica
Protein kinase C; Acetylcholine; Acetylcholine receptor; Phorbol ester; Protein kinase C activator (Papp, A. (708) 123)

Aplysia neurons
Sodium nitroprusside; Opiate receptor; K^+ current (Sawada, M. (740) 124)

Apnea
Newborn; Cerebral oxygenation; Hypoxia; Phosphorescence (Tammela, O.K.T. (741) 160)

ApoE
LRP; Amyloid precursor protien; Nexin; Amyloid; Alzheimer; Receptor associated protein (Knauer, M.F. (740) 6)

Apolipoprotein E
Cystatin C; GFAP; Immunocytochemistry; Ischemia; Hippocampus; Gerbil (Ishimaru, H. (709) 155)

Peroxynitrite; Alzheimer's disease; Oxidative stress (Matthews, R.T. (718) 181)

Alzheimer's disease; Brain extract; Enzyme linked immunosorbent assay (Pirttilä, T. (722) 71)

Apomorphine
Excitotoxicity; Kainate; Neostriatum; *N*-Methyl-D-aspartate; Metabotropic glutamate receptor; Quinolinic acid (Colwell, C.S. (726) 223)

Sensitization; Dose–response relationship; Priming (Gancher, S. (729) 190)

Prolyl-leucyl-glycinamide; PLG analog; MIF-1; Striatal dopamine receptor; 6-Hydroxydopamine lesion (Ott, M.C. (737) 287)

D_2 receptor; Cocaine; Dopamine transporter; Quinpirole (Little, K.Y. (742) 313)

Apoptosis
Neuronal bungarotoxin; Neuromuscular junction; Spinal cord; Motoneuron death; α-Bungarotoxin (Renshaw, G.M.C. (709) 316)

Bax; Bcl-2; CA1; Gerbil; Delayed neuronal death (Hara, A. (711) 249)

DNA fragmentation; Olidodendroglial cell; Neuroglial cell; Terminal transferase; Lectin histochemistry; Hypomyelination (Vela, J.M. (712) 134)

Endotoxin; Hippocampus; Hypothalamus; Interleukin-1β; Lipopolysaccharide; Pituitary (Tingsborg, S. (712) 153)

Neuron; Glial cell; Development; Immunohistochemistry; Western blotting (Mizuguchi, M. (712) 281)

Focal cerebral ischemia; Excitotoxicity; Hypoxia; Glutamate; NMDA (Du, C. (718) 233)

N-Methyl-D-aspartate; Quinolinic acid; Excitotoxicity; DNA fragmentation; Neurodegeneration; Huntington's disease (Qin, Z.-H. (725) 166)

Granule neuron; Glutamate toxicity; Free radical; Neuroprotection; Enzyme inhibitor; Antioxidant; Necrosis (Ciani, E. (728) 1)

Closed head injury; Head trauma; Cell death; Ca/Mg-dependent endonuclease; Nucleus; DNA fragmentation (Pravdenkova, S.V. (729) 151)

Programmed cell death; Stroke; Glutamate; Cycloheximide; Excitotoxicity; Propidium iodide (Kharlamov, A. (734) 1)

Sexually dimorphic nucleus of the preoptic area; Medial preoptic nucleus; Testosterone; Sexual differentiation; Rat (Davis, E.C. (734) 10)

Ischemia; Astrocyte; Hippocampus; Peptide; Rat; PACAP (Uchida, D. (736) 280)

Alzheimer's disease; β-Amyloid; Necrosis; Neurotoxicity; DNA laddering (Li, Y.-P. (738) 196)

Spatial memory; Cortical impact; Granule cell (Colicos, M.A. (739) 120)

Bcl-2 gene family; Axotomy; Dorsal root ganglion; c-Jun transcription factor; Immunohistochemistry; DNA fragmentation (Gillardon, F. (739) 244)

Zinc; Delayed neuronal death; Ca^{2+}-Mg^{2+} endonuclease (Matsushita, K. (743) 362)

APP
Peripheral nerve; Leupeptin; Aprotinin; Serpin; Deposit; Schwann; Anchoring junction; Desmosome; Alzheimer (Moreno, R.D. (718) 13)

Apparent motion
Visual evoked potential; Vernier; Visual cortex (Noss, R.S. (727) 153)

Appetite
Brainstem; Taste; Palatability; Food intake; Feeding; Benzodiazepine; Hyperphagia; Diazepam; Cerebral ventricle; Hindbrain; Anxiolytic (Peciña, S. (727) 22)

APP secretion
PI metabolism; AF102B; Various brain regions; M1 receptor; Alzheimer's disease (Pittel, Z. (742) 299)

Aprotinin
Peripheral nerve; Leupeptin; APP; Serpin; Deposit; Schwann; Anchoring junction; Desmosome; Alzheimer (Moreno, R.D. (718) 13)

Arachidonic acid
Excitotoxicity; Basic fibroblast growth factor; Mature hippocampal neuron; Neuroprotection (Himmelseher, S. (707) 54)

Ca^{2+} mobilization; Intracellular Ca^{2+} pool; Mitochondria; Sphingosylphosphorylcholine; Sphingosine (Huang, W.-C. (718) 151)

Hippocampus; Long-term depression; Phospholipase A_2; 12-Lipoxygenase metabolite (Normandin, M. (730) 40)

Traumatic brain injury; Fluid percussion; Phosphatidylinositol bisphosphate; Diacylglycerol; Free fatty acid; Scopolamine; Muscarinic; Rat (Lyeth, B.G. (742) 63)

Rat striatum; Slice; Synaptosome; GABA uptake; GABA release (Chéramy, A. (742) 185)

Arcuate nucleus
Neuropeptide Y; mRNA; Gold thioglucose; Ventromedial nucleus; Food deprivation (Bergen, H.T. (707) 266)

Photoperiod; Tyrosine hydroxylase; L-amino acid decarboxylase; Immunocytochemistry; Median eminence; Hamster (Krajnak, K. (712) 95)

Arcuate nucleus of hypothalamus
Glutamate; Microdialysis; Extracellular level; Plasma level; Feeding (Bogdanov, M.B. (736) 76)

Area 21a
Spatial frequency; Temporal frequency; Contrast sensitivity; Extrastriate cortex; Vision; Cat (Tardif, E. (716) 219)

Area 3b
Magnetoencephalography; Somatosensory; Evoked field; Cortex; Human (Vanni, S. (737) 25)

Area postrema
Vagus nerve; Nucleus tractus solitarius; Ventromedial hypothalamic nucleus; Pancreas; Ovariectomy; Cholecystokinin receptor; Devazepide; L365,260; Food intake (Geary, N. (179) 179)

Baroreflex; Brain slice; Integration; Intracellular recording; Nucieus tractus solitarius (Cai, Y. (724) 121)

Hypertonic NaCl solution; Hypovolemia; Sucrose; Thirst; Water intake (Curtis, K.S. (726) 31)

Neurokinin B; Nucleus tractus solitarii; Dorsal nucleus of the vagus nerve; Synapse (Carpentier, C. (734) 327)

Arecoline
Alzheimer's disease; Acetylcholine; Atropine; Consolidation; Development; Memory; Passive-avoidance response; Pilocarpine; Scopolamine (Smith, R.D. (707) 13)

5α-reductase
Immunohistochemistry; Western blot; Rat; Brain (Tsuruo, Y. (722) 207)

L-Arginine
Glutamate; Microdialysis, in vivo; Nitric oxide; N^G-Nitro-L-arginine; Transient forebrain ischemia (Nanri, K. (738) 243)

Arginine-vasopressin
Suprachiasmatic nucleus; Neuropeptide Y; Strain difference; Rat (Wollnik, F. (724) 191)

Arginine vasopressin
Amino acid transport; Blood–brain barrier; Kinetic constant; L-system; Tyrosine; Valine (Reichel, A. (713) 232)

Estrogen; Lactation; Oxytocin; Paraventricular nucleus; Progesterone (Thomas, A. (738) 48)

Arm movement
Human motor control; Movement disorder; Cerebellum; Force control; Movement speed; Ataxia (Wild, B. (713) 186)

Anticipatory postural adjustment; H-reflex; Human (Kasai, T. (714) 125)

8-Arm radial maze
MK801; CGS19755; YM90K; Scopolamine; Spatial cognitive deficit; Augmentation (Li, H.-B. (725) 268)

8-Arm radial maze task
Cerebral ischemia; Spatial cognition; Microdialysis; Glutamate; Noradrenaline; Acetylcholine (Iwasaki, K. (709) 163)

Aromatic L-amino acid decarboxylase
Serotonergic neuron; L-Dopa; Dopamine; Raphe nucleus; Striatum; Cerebral cortex; Parkinson's disease (Arai, R. (706) 177)

Catechol-*O*-methyltransferase; DOPA; Dental pulp; Human (Nomura, T. (735) 314)

Tyrosine hydroxylase; Mesencephalic culture; GM1 ganglioside; Recovery; 1-Methyl-4-phenylpyridinium (MPP^+) (Dalia, A. (742) 260)

Arousal
Circadian rhythm; Entrainment; Serotonin; Hamster; Activity; Non-photic (Sumova, A. (709) 88)

Neuropeptide Y; Corticotropin-releasing hormone; Sodium pentobarbital; Psychological stress; Locomotor activity; Sedative action (Yamada, K. (725) 272)

Light reflectance; Optical imaging; Sleep; Paraventricular hypothalamus; PVH; PVN; REM; Waking; Slow wave; Neuroendocrine (Kristensen, M.P. (727) 107)

Prefrontal cortex; Dopamine release; Microdialysis; Stress; Handling; Novelty; Food consumption (Feenstra, M.G.P. (742) 17)

Arterial pressure
Adrenergic receptor; Water intake; Natriuresis; Kaliuresis; Diuresis (Kelli Pereira da Silva, R. (717) 38)

Arthritis
Reflex facilitation; Hyperalgesia; Central sensitization; Wind-up; Pain (Herrero, J.F. (717) 62)

Fos; Spinal cord; Inflammation; Formalin; Potentiation (Leah, J.D. (719) 104)

Ascorbate
Glutathione; Free radicals; Decapitation ischemia; Gender; Hippocampus; Sex hormone (Kume-Kick, J. (738) 8)

IMR-32; Cell culture; Neurofilament; SMI31; Oxidative stress (Cookson, M.R. (738) 162)

Ascorbic acid
β-Endorphin; Cell culture; Hypothalamus; Adenylyl cyclase (Yang, Z. (706) 243)

In vivo; Rat brain; Oxidative stress; Uric acid; Lipid peroxidation; Malonaldehyde; Antioxidant (Waterfall, A.H. (712) 102)

Kainic acid; Vitamin C; Allopurinol; Free radical; Neuroprotection; Neurodegeneration (MacGregor, D.G. (727) 133)

Autoxidation; Dopamine; Glutamate; L-DOPA; Neurotoxicity; Striatum (Cheng, N.-n. (743) 278)

Ascorbic acid oxidation
Morphine; Dopamine metabolism; Withdrawal; Excitotoxicity; Striatum; Limbic forebrain (Desole, M.S. (723) 154)

Ascorbyl radical
Cerebral ischemia-reperfusion; Platelet-activating factor; Thromboxane; Free radical; Electron spin resonance (Matsuo, Y. (709) 296)

Aspartate
Nitric oxide; Glutamate; Microdialysis (Getting, S.J. (717) 196)

Capillary electrophoresis; Laser-induced fluorescence detection; Dexfenfluramine; Frontal cortex; GABA; Glutamate; In vivo brain microdialysis; Serotonin (Rocher, C. (737) 221)

Cochlea; Vestibular end organ; Guinea pig; Immunocytochemistry; Hair cell; Freeze substitution (Usami, S.-i. (742) 43)

Aspartate / malate shuttle
Pineal; Cyclic AMP; Malate dehydrogenase; Phosphorylation (Weller, J.L. (713) 8)

Association
Nerve growth factor; Hippocampus; Pellet; Enzyme-linked immunosorbent assay; Rat brain (Hoener, M.C. (728) 47)

Associative
Long-term potentiation; Perirhinal cortex; NMDA; Memory (Bilkey, D.K. (733) 297)

Associative learning
Environment; Stress; Rotational behavior; Rat (Crombag, H.S. (722) 227)

Prefrontal cortex; 2-Fluorodeoxyglucose; Brain development; Memory; Conspecific vocalization (Poeggel, G. (743) 162)

Astrocyte
Suprachiasmatic nucleus; Gap junction; Neuron; Cell culture; Circadian rhythm (Welsh, D.K. (706) 30)

GAP-43; Kainate; Ibotenic acid; Glial fibrillary acidic protein (GFAP); Hippocampus; Dentate gyrus; CA3 (Meberg, P.J. (706) 217)

Prostanoid receptor; Oligodendrocyte; Microglia; Reverse transcriptase-polymerase chain reaction; Messenger RNA expression; Cell differentiation (Kitanaka, J. (707) 282)

Glia; SC1; SPARC; Reactive astrocytosis; Extracellular matrix (McKinnon, P.J. (709) 27)

Tripeptide reduced glutathione; Catabolism; Ischemia; ATP; Cysteine; Glutamate; Neurotoxicity; Sodium-potassium ATPase (Juurlink, B.H.J. (710) 229)

Sensorimotor cortex; Dendritic branching; Dendritic spine; Use-dependent neural growth; Microglia; Glial fibrillary acidic protein; Postural asymmetry (Forgie, M.L. (710) 249)

Androgen; Progestagen; 5α-Reductase; Glial fibrillary acidic protein; Rat; Central nervous system (Melcangi, R.C. (711) 10)

Antidepressant; Calcium; Lithium; Noradrenaline (Chen, Y. (711) 245)

Cyclic response element-binding protein; Kainic acid; Gene transcription (Ferrer, I. (712) 159)

Cytokine; Interleukin-6; Nerve growth factor; Traumatic brain injury; Human (Kossmann, T. (713) 143)

Microglia; Interleukin-6; Granulocyte/macrophage colony-stimulating factor; Cytokine (Suzumura, A. (713) 192)

Nitric oxide; ET-18-OCH_3; Platelet activating factor; PAF; CPAF; LPS; BN 50730 (Cardile, V. (715) 98)

Connexin43; Gap junction; β/A4 Amyloid; Alzheimer's disease (Nagy, J.I. (717) 173)

Ciliary neurotrophic factor; Neurotrophic factor; Phorbol 12-myristate 13-acetate; AP-1 (Nagao, H. (719) 23)

Adrenomedullin; Amylin; Calcitonin; Calcitonin gene-related peptide; Receptor; Hybrid cell (Zimmermann, U. (724) 238)

Ischemia; Transferrin; Ferritin; Delayed neuronal death; Microglia; Oligodendrocyte; Immunocytochemistry (Ishimaru, H. (726) 23)

Spinal cord injury; Endothelin-1; SB209670; Monoclonal antibody RC1 (Uesugi, M. (728) 255)

Lipopolysaccharide; Protein tyrosine kinase inhibitor; Nitric oxide; Inducible nitric oxide synthase; Microglia (Kong, L.-Y. (729) 102)

Glia; Opioid peptide; Neuron–glia interaction; Glucocorticoid; Cyclic AMP; Preproenkephalin (McMillian, M.K. (730) 67)

Neuroglia; Alcohol; DNA synthesis; Brain atrophy; Microencephaly; Alcoholism; Fetal alcohol syndrome (Kane, C.J.M. (731) 39)

Bismuth; Rat; In vitro; Metallothionein (Cowan, K. (732) 106)

Volume regulation; Methylmercury; Sodium; Potassium; Taurine (Vitarella, D. (732) 169)

Hippocampal slice; CA1 pyramidal cell; Fluorocitrate; Anoxia; Aglycemia; MK-801; Rat (Nakanishi, H. (732) 232)

Heme oxygenase; Microglia; Macrophage; Bergmann glia; Heat shock protein (Fukuda, K. (736) 68)

Ischemia; Apoptosis; Hippocampus; Peptide; Rat; PACAP (Uchida, D. (736) 280)

Brain injury; Glial fibrillary acidic protein; Glial fibrillary acidic protein mRNA; Basic fibroblast growth factor; Rat (Eclancher, F. (737) 201)

Methylmercury; Metallothionein; Regulatory volume decrease; Taurine; Hypotonicity (Vitarella, D. (738) 213)

Presynaptic release; Dopamine; Neurotoxicity; Glutamate (Gracy, K.N. (739) 169)

Heat shock 70 gene expression; Tissue culture; Hybridization, in situ; Immunohistochemistry; Rat cerebellum; Neuron; Microglia (Voisin, P.J. (739) 215)

Penumbra; NF-κB; Macrophage; Microglia (Terai, K. (739) 343)

Monoclonal antibody; Glial fibrillary acidic protein; Retina; Mouse brain; Subtype (Kobayashi, K. (740) 57)

mGluR3; mGluR5; Retina; Metabotropic glutamate receptor (Jeffery, G. (741) 75)

Glial fibrillary acidic protein; Axotomy; Red nucleus; Rubrospinal; Glia (Tseng, G.-F. (742) 115)

Microglia; Mouse; LP-BM5 virus; Dementia; AIDS (Kustova, Y. (742) 271)

Retinal ganglion cell; Axonal regeneration; Reactive oxygen species; Neurotoxicity (Lucius, R. (743) 56)

Astrocyte in culture
Glutathione; Glutathione reductase; Oxidative stress; Mitochondrion; Ethacrynic acid (Huang, J. (711) 184)

Astrocyte, Type 1
Monoamine oxidase expression; Monoamine oxidase (MAO) A mRNA; Monoamine oxidase (MAO) B mRNA; Dexamethasone; RU 486; Deprenyl; Actinomycin D; Cycloheximide (Carlo, P. (711) 175)

Astroglia
Electron microscopy; Acetylcholine; Muscarinic receptor; Microvessel (Luiten, P.G.M. (720) 225)

Intracerebral transplantation; Migration; [^{3}H]thymidine; Oligodendrocyte; Pericyte (Lundberg, C. (737) 295)

Asymmetry
Pyroglutamyl peptidase I; Retina; Hypothalamus; Light; Darkness; Rat (Sánchez, B. (731) 254)

AT8
Constructional apraxia; Praxis; Dystrophic neurite; Neurofibrillary tangle; β-Amyloid; Occipital cortex; Parietal lobe (Nielson, K.A. (741) 284)

Ataxia
Human motor control; Movement disorder; Cerebellum; Force control; Movement speed; Arm movement (Wild, B. (713) 186)

Ataxic mutant
Autosomal recessive; Dilute-opisthotonus rat; Dendritic spine; Endoplasmic reticulum; Inositol 1,4,5-Trisphosphate receptor; Purkinje cell abnormality (Dekker-Ohno, K. (714) 226)

ATP
Brain; Phosphocreatine; Nuclear magnetic resonance (Tsuji, M.K. (707) 146)

Tripeptide reduced glutathione; Astrocyte; Catabolism; Ischemia; Cysteine; Glutamate; Neurotoxicity; Sodium-potassium ATPase (Jurlink, B.H.J. (710) 229)

Myenteric neuron; Pulsed nitrogen laser; Calbindin-D_{28}; Intracellular free calcium; AH/Type 2; Dogiel type II; S/Type 1; Enteric glia (Christofi, F.L. (725) 241)

ATPase
Neuronatin; Chromosome 20; Development; Proteolipid protein; Brain; Phospholamban; PMP1; Cation channel; Neural restrictive silencer element (Dou, D. (723) 8)

ATP receptor
Substance P; Dorsal root ganglion; Whole-cell patch-clamp technique; Modulation (Hu, H.-Z. (739) 163)

ATP-sensitive K^+ channel
Diet-induced obesity; Diet-resistant; Sulfonylurea receptor; Glucose; Diabetes (Levin, B.E. (739) 293)

AT-1 receptor antagonist
Magnocellular hypothalamic nuclei; Lamina terminalis; EXP 3174; Isoproterenol; Polyethylene glycol; Hypovolemia (Rowland, N.E. (742) 253)

Atrial natriuretic peptide
c-*fos*; Immediate–early gene; Drinking behavior; C-type natriuretic peptide; Angiotensin II (Zhu, B. (734) 55)

Brain natriuretic peptide; C-type natriuretic peptide (Pan, J.-T. (737) 78)

Atrioventricular conduction
Cardiac rate; Glutamate; Immunocytochemistry; Histochemistry; Nucleus ambiguus; Retrograde transport; Tachykinin; Vagus nerve (Massari, V.J. (715) 197)

Atropine
Alzheimer's disease; Acetylcholine; Arecoline; Consolidation; Development; Memory; Passive-avoidance response; Pilocarpine; Scopolamine (Smith, R.D. (707) 13)

Acetylcholine; Analgesia; Intrathecal; Methysergide; Naloxone; Noradrenaline; Serotonin; Spinal cord; Yohimbine (Fang, F. (722) 95)

Tacrine; In vitro ACh release; Cortical synaptosome; AF-DX 116; Pirenzepine; Muscarinic receptor (Svensson, A.-L. (726) 207)

Acetylcholine; Carbachol; Circadian rhythm; Entrainment; Mecamylamine; Suprachiasmatic; Phase–response curve (Bina, K.G. (743) 202)

Haloperidol; Dantrolene sodium; Forced hyperthermia; Creatine phosphokinase; Muscle rigidity; Set-point; Neuroleptic malignant syndrome (Tanii, H. (743) 263)

Attention
Positron emission tomography; Glucose metabolism; Anterior cingulate; Thyroid receptor β (Matochik, J.A. (723) 23)

Medial septum/diagonal band complex; Conditioned taste aversion; Latent inhibition; 192-Saporin (Dougherty, K.D. (736) 260)

Audiogenic rat
Seizure; Kindling; [^{14}C]2-Deoxyglucose; Cerebral glucose utilization; Interictal metabolic level (Nehlig, A. (724) 97)

Audiogenic seizure
Kindling; Neuron; Inferior colliculus; Genetically epilepsy-prone rat (N'Gouemo, P. (710) 92)

Epilepsy; CGP 37849; CGP 39551; Excitatory amino acid antagonist; Tolerance; Anticonvulsant; Genetically epilepsy-prone rat (De Sarro, G. (734) 91)

Auditory
Evoked potential; EEG; Gamma-band (Brett, B. (721) 155)

c-*fos*; Anaesthetic; Halothane; Anechoic; Guinea pig (Cody, A.R. (728) 72)

Myelin associated glycoprotein; Myelin basic protein; Neuron–glia cell adhesion molecule; Development; Lateral superior olive; MAG; MBP; L1 (Hafidi, A. (736) 35)

Auditory cortex
Cochlear nucleus; Corticofugal; Efferent; Fast blue; Layer V (Weedman, D.L. (706) 97)

Human; Tonotopic representation; Microelectrode; Chronic; Single unit (Howard III, M.A. (724) 260)

Auditory imprinting
Autoradiography; Dopamine receptor; Postnatal development; Chick; Learning and memory (Schnabel, R. (720) 120)

Auditory physiology
Fos immunoreactivity; Double labeling; Horseradish peroxidase; Pontine nucleus (Qian, Y. (731) 241)

Auditory sensory memory
Neural model; Passive attention; Sensory inference; Event-related potential (ERP); Mismatch negativity (MMN) (Winkler, I. (742) 239)

Auditory system
Cochlear implant; Congenital deafness; Glial cell; Transneuronal degeneration (Saada, A.A. (736) 315)

Latent inhibition; Conditioned emotional response; C-*fos* immunohistochemistry; Limbic system; Rat brain (Sotty, F. (737) 243)

Augmentation
MK801; CGS19755; YM90K; Scopolamine; 8-Arm radial maze; Spatial cognitive deficit (Li, H.-B. (725) 268)

Autofluorescence
Calcium; Hippocampal slice; Fura dye; Cyanide; Kainate (Brooke, S.M. (706) 283)

Autoimmunity
Cortex; Cortical development; Dyslexia; Enriched environment; Ectopia; Hebb-Williams maze; Lashley maze; Morris maze; Neuronal migration; Reference memory (Boehm, G.W. (726) 11)

Automatism
Hippocampus; Seizure; Locomotion; Dopamine; γ-Aminobutyric acid (Ma, J. (739) 26)

Autometallography
Bismuth; Heavy metal; Hydrocephalus; Neurotoxicity; Tissue distribution; Mouse (Ross, J.F. (725) 137)

Autonomic
δ; Enkephalin; ICI 154,129; μ; Naloxone; Opioid; Solitarius; Vagal (Feldman, P.D. (709) 331)

Aging; Transplantation; Sympathetic; Sensory; Cerebral blood vessel; Extracellular matrix (Gavazzi, I. (734) 167)

Autonomic function
Synapse; Cortical circuit; Limbic system (Bacon, S.J. (720) 211)

Autonomic nervous system
Neonate; Blood pressure; Immediate-early response gene; Functional activity; Gene induction; Catecholamine (Ruggiero, D.A. (706) 199)

Brain–gut axis; Gastric secretion; Corticotropin-releasing factor; Locus coeruleus; Stress (Mönnikes, H. (728) 157)

Heart rate; Stress; Medial frontal cortex; Agranular insular cortex; Noradrenaline; Dopamine; β-Adrenoceptor (Funk, D. (741) 220)

Vestibular sensory system; Somato-autonomic reflex; Movement; Gravity; Orthostatic hypotension (Ruggiero, D.A. (743) 294)

Autoradiography
Corticosteroid receptor; Hippocampus; Sex difference (MacLusky, N.J. (708) 71)

Neuronal nitric oxide synthase; 7-Nitroindazole; Trigeminal pathway; [^{14}C]iodoantipyrine; Somatosensory activation; α-Chloralose (Cholet, N. (708) 197)

Brain; Communication; Fish; Pituitary; Sexual dimorphism; Steroid (Fine, M.L. (709) 65)

Basal ganglia; Dopamine D_3 receptor; Dyskinesia; L-DOPA; Marmoset; MPTP; Psychosis (Hurley, M.J. (709) 259)

Glutamate; Glycine; *N*-Methyl-D-aspartate receptor; Spermidine; [^{3}H]MK-801 (McCoy, L. (710) 103)

δ-Opioid receptor; Receptor subtype; [^{3}H]DPDPE; [^{3}H]DSLET; Rat brain (Hiller, J.M. (719) 85)

Dopamine receptor; Auditory imprinting; Postnatal development; Chick; Learning and memory (Schnabel, R. (720) 120)

Estrogen receptor; Progesterone receptor; Sex difference; Hypothalamus; Preoptic area; Estrogen; Guinea pig (Brown, T.J. (725) 37)

Kappa opioid; Sigma binding site; Guinea-pig brain; Liver; Spleen; Receptor binding (Brent, P.J. (725) 155)

Citalopram; Barrel; Thalamus (Bennett-Clarke, C.A. (733) 301)

[^{3}H]Nisoxetine; [^{3}H]Cyanoimipramine; Limbic forebrain; Hypothalamus (Belej, T. (736) 287)

Serotonin; 5-HT synthesis rate; Fenfluramine; Rat brain (Mück-Šeler, D. (737) 45)

Cholecystokinin; Receptor subtype; Neuroanatomy; Cortex; Monkey (Mercer, L.D. (738) 313)

Vascular reserve capacity; Cerebral ischemia; Acetazolamide; Three vessel occlusion; Rat (Kawata, Y. (739) 330)

Autoreceptor
Dendritic release; Neuroleptic; Midbrain; Morphology (Pucak, M.L. (713) 44)

5-HT_{1B} receptor; 5-$HT_{1D\beta}$ receptor; Serotonin; Serotonin transporter; Serotonin receptor; 5,7-Dihydroxytryptamine; Citalopram; Dorsal raphe (Neumaier, J.F. (722) 50)

High performance liquid chromatography; Extracellular acetylcholine; Acetylcholinesterase inactivation (Testylier, G. (740) 307)

3,4-Diaminopyridine; Dopamine release; Acetylcholine release; Rabbit caudate nucleus; Nitric oxide; Opioid receptor; Adenosine receptor (Ries, V. (743) 303)

Autosomal recessive
Ataxic mutant; Dilute-opisthotonus rat; Dendritic spine; Endoplasmic reticulum; Inositol 1,4,5-Trisphosphate receptor; Purkinje cell abnormality (Dekker-Ohno, K. (714) 226)

Autotomy
Mouse; Neuropathic pain; Spinal cord (Defrin, R. (711) 241)

Pain; Peripheral neurectomy; Central sensitization; Bupivacaine; Cingulum bundle (Magnusson, J.E. (723) 214)

Autoxidation
Ascorbic acid; Dopamine; Glutamate; L-DOPA; Neurotoxicity; Striatum (Cheng, N.-n. (743) 278)

Aversion conditioning
Nucleus tractus solitarius; c-Fos; Learning; Lithium chloride (Schafe, G.E. (741) 109)

Avian brain
Vasotocin; Vasopressin; Aging; Preoptic region; Sexual behavior; Quantitative analysis (Panzica, G.C. (712) 190)

Avoidance learning
Limbic thalamus; Cingulate cortex; Single-unit activity; Discrimination; Pre-motor neuronal activity (Kubota, Y. (721) 22)

Axial apraxia
Dopamine; Hemiparkinson's disease model; Body-on-body righting; Rat (Martens, D.J. (733) 253)

Axon
GPI-anchored protein; Membrane; TAG-1 (Harel, R. (712) 345)

Anoxia; Reperfusion injury; Reoxygenation; Ischemia; Electron probe X-ray microanalysis; Peripheral nerve; Elemental composition (Lehning, E.J. (715) 189)

Microtuble-associated protein 2; β-Amyloid precursor protein; β-Amyloid; MK-801; Traumatic brain injury; Dendrite (Lewén, A. (719) 161)

Laminin; Growth cone; Lipoxygenase; Lysophosphatidic acid; Protein kinase C; Ceramide (Smalheiser, N.R. (721) 39)

Nerve fiber; Tooth germ; Tooth pulp; Neuropeptide; Teleost; Immunohistochemistry (Tuisku, F. (729) 137)

Melanocortin; Corticospinal tract; Cortex; Cell culture; Neuron polarity; Dendrite; Trophic factor (Joosten, E.A.J. (736) 91)

Spinal cord injury; Potassium channel; 4-Aminopyridine; Tetraethylammonium (Fehlings, M.G. (736) 135)

Axonal injury
Blood–brain barrier; Brain injury; Immunohistochemistry; Rat; IgG immunoreactivity; Experimental cerebral trauma (Hoshino, S. (711) 73)

Axotomy; Traumatic brain injury; Cytoskeleton; Neurofilament; Microtubule; Mitochondrion; Membrane (Pettus, E.H. (722) 1)

Axonal lesion
Spinal cord; α-Motoneuron; Retrograde reaction; Ventral root avulsion; Cat (Holmberg, P. (731) 155)

Axonal regeneration
Retina, flat-mounted; Immunohistochemistry; Monoclonal antibody C38; Rat; Retinal ganglion cell (Wakabayashi, T. (725) 121)

Respiratory neuron; Peripheral nerve graft; Electrophysiology; Nerve grafting; Rat;

Schwann cell; Spinal cord; Wallerian degeneration (Decherchi, P. (726) 181)

Retinal ganglion cell; Astrocyte; Reactive oxygen species; Neurotoxicity (Lucius, R. (743) 56)

Axonal reticulum
Axonal transport; Sympathetic nerve; Small synaptic vesicle; Synaptophysin; Large dense-core vesicle (Quatacker, J. (731) 101)

Axonal sprouting
Entorhinal cortex; Hippocampus; Mutant mouse; Neuromorphological plasticity; Septum (Shi, B. (740) 89)

Axonal transport
Axon regeneration; Cytoskeleton; Axotomy; β-Tubulin; Sensory neuron; Dorsal root; Sciatic nerve (Hoffman, P.N. (708) 182)

Dorsal root ganglia; 3,3′-Iminodipropionitrile; Myelinated perikarya; Neurofilament; Neurotoxicity; Proximal axonopathy; Vestibular ganglia (Llorens, J. (717) 118)

Axonal reticulum; Sympathetic nerve; Small synaptic vesicle; Synaptophysin; Large dense-core vesicle (Quatacker, J. (731) 101)

Axon excitability
Activity dependence; Conduction latency; Low-threshold mechanoreceptors; Electrical stimulation; Sciatic nerve; Rat (Waikar, S.S. (721) 91)

Axon regeneration
Axonal transport; Cytoskeleton; Axotomy; β-Tubulin; Sensory neuron; Dorsal root; Sciatic nerve (Hoffman, P.N. (708) 182)

Tubulin isotype; Class II β-tubulin; Class III β-tubulin; Slow axonal transport; Tubulin expression; Immunoprecipitation (Hoffman, P.N. (742) 329)

Axotomy
Axon regeneration; Axonal transport; Cytoskeleton; β-Tubulin; Sensory neuron; Dorsal root; Sciatic nerve (Hoffman, P.N. (708) 182)

Microglial cell; *Griffonia simplicifolia* isolectin B_4 (GSA I-B_4); Red nucleus; Spinal injury; Intrinsic central neuron (Tseng, G.-F. (715) 32)

Messenger plasticity; Chronic constriction injury rat; Vanilloid receptor; Resiniferatoxin (Farkas-Szallasi, T. (719) 213)

Trauma; Sympathetic neuron; Calcium; Neurotoxicity; Calcium channel; Confocal microscopy (Sattler, R. (719) 239)

Axonal injury; Traumatic brain injury; Cytoskeleton; Neurofilament; Microtubule; Mitochondrion; Membrane (Pettus, E.H. (722) 1)

Motoneuron; Ciliary neurotrophic factor; Adult; Ultrastructure; Rat (Demetriou, T. (733) 312)

Culture; Spinal cord injury; Ion; Calcium; Trauma; Gray matter; White matter (Rosenberg, L.J. (734) 349)

Bcl-2 gene family; Dorsal root ganglion; c-Jun transcription factor; Immunohistochemistry; DNA fragmentation; Apoptosis (Gillardon, F. (739) 244)

Astrocyte; Glial fibrillary acidic protein; Red nucleus; Rubrospinal; Glia (Tseng, G.-F. (742) 115)

B

β(25–35)
Locus coeruleus; Medial septum; Tyrosine hydroxylase; Glutamate; Choline acetyltransferase (Chen, S.-Y. (715) 44)

β(25-35)
Locus coeruleus; Norepinephrine; Spatial learning (Chen, S.-Y. (720) 54)

fosB
Suprachiasmatic nucleus; Circadian rhythm; c-*fos*; Gene expression; Immediate-early gene; Light; Entrainment; Transcription regulation (Guido, M.E. (739) 132)

junB
Suprachiasmatic nucleus; Circadian rhythm; Gene expression; Immediate-early gene; Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (732) 215)

Back muscle
Benzodiazepine; Progesterone; Lordosis; Midbrain central gray (MCG); Periaqueductal gray (PAG); Reticular formation; Muscle relaxant (Schwartz-Giblin, S. (710) 178)

BAPTA / AM
Carotid body; Glomus cell; Intercellular coupling; Calcium; A23187; Dimethylsulfoxide (Abudara, V. (725) 125)

Barbiturate
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$GABA_A$; Steroid; Pregnanolone; Regulation; Modulation; Uncoupling; Tolerance (Friedman, L.K. (707) 100)

Baroreceptor control of heart rate
Bradykinin; Baroreflex; Nucleus tractus solitarius (nTS); Blood pressure; HOE-140; Bradykinin antagonist (Caligiorne, S.M. (720) 183)

Baroreceptor pathway
Hypoxia; Nucleus tractus solitarius; Chemoreceptor pathway; Catecholaminergic nuclei; Tyrosine hydroxylase; Quantitative radioimmunohistochemistry (Pépin, J.L. (733) 1)

Baroreceptor reflex
Neuropeptide FF; Receptor; Nucleus tractus solitarius; Cardiovascular parameter (Laguzzi, R. (711) 193)

Noradrenergic A_2 cell group; Adrenergic C_2 cell group; Dorsal vagal complex; Angiotensin II; Circumventricular organ; Central cardiovascular regulation (Ciriello, J. (726) 227)

Fos-like immunoreactivity; c-*fos* oligonucleotide; Nucleus tractus solitarius; Rat (Shih, C.-D. (738) 39)

Galanin; Galanin receptor; Blood pressure; Cardiovascular; Neuropeptide; Brain; Galanin-(1-15) (Díaz, Z. (741) 32)

Baroreceptor reflex response
Galanin; Locus coeruleus; Galanin antiserum; Nucleus tractus solitarii; Rat (Shih, C.-D. (721) 76)

Baroreflex
γ-Aminobutyric acid; Rostro-ventrolateral medulla; Brainstem slice; Intracellular recording; Cardiovascular regulation; Pacemaker neuron (Hayar, A. (709) 173)

Bradykinin; Nucleus tractus solitarius (nTS); Blood pressure; HOE-140; Bradykinin antagonist; Baroreceptor control of heart rate (Caligiorne, S.M. (720) 183)

Area postrema; Brain slice; Integration; Intracellular recording; Nucleus tractus solitarius (Cai, Y. (724) 121)

Barrel
Autoradiography; Citalopram; Thalamus (Bennett-Clarke, C.A. (733) 301)

Basal forebrain
Extracellular matrix; Lectin binding; Cerebral cortex; Reticular thalamic nucleus; Red nucleus; Rat (Brückner, G. (720) 84)

Brain stimulation reward; Immediate early genes; Medial forebrain bundle; Lateral preoptic area; Substantia innominata (Arvanitogiannis, A. (720) 148)

Nerve growth factor; Sprouting; Sympathetic; Hippocampus; Septal lesion; Section culture; Rat (Tian, X. (725) 111)

Galanin; Cholinergic; Gene expression; Horizontal limb, diagonal band of Broca; In situ hybridization histochemistry (Planas, B. (728) 57)

Basal ganglia
Motor cortex; Globus pallidus; Thalamus; Supplementary motor area; Monkey (Kayahara, T. (706) 337)

Superoxide dismutase; Oxygen free radical; Ischemia; Excitotoxicity; Huntington's disease; Neurodegeneration (Medina, L. (708) 59)

Calcium-binding protein; Immunohistochemistry; Squirrel monkey; *Saimiri sciureus*; Neurodegenerative disease (Fortin, M. (708) 201)

Calretinin; Calcium-binding protein; Co-occurrence; Striatum (Figueredo-Cardenas, G. (709) 145)

Autoradiography; Dopamine D_3 receptor; Dyskinesia; L-DOPA; Marmoset; MPTP; Psychosis (Hurley, M.J. (709) 259)

Striatum; Corticospinal cell; Motor cortex; Second somatosensory cortex; Corticothalamic cell (Lévesque, M. (709) 311)

Sex difference; Sexual dimorphism; Amphetamine; c-Fos; Striatum; Dopamine (Castner, S.A. (712) 245)

Neurological mutant mouse; Rolling mouse Nagoya; Preproenkephalin mRNA; Preprotachykinin mRNA; Dopamine D_2 receptor binding assay (Taniwaki, T. (714) 231)

Huntington's disease; Excitotoxicity ; Mitochondria; Nitric oxide synthase; NMDA; Chronic administration (Bazzett, T.J. (718) 228)

Behavioral sensitization; Presynaptic; Dopamine; Glutamate; Striatum; Substantia nigra (Garcia-Munoz, M. (720) 131)

Levodopa; 2-Deoxyglucose autoradiography; Regional cerebral glucose utilization (Trugman, J.M. (725) 177)

Fos; Cerebral cortex; Dopamine; Reserpine; D1/D2 synergism; Cortical layer; Immediate-early gene (LaHoste, G.J. (728) 97)

Neuronal activity; Movement disorder (Ebert, U. (728) 125)

Neurodegenerative disorder; Huntington's chorea; Calcium-binding protein; Neurokinin receptor; Striatum (Cicchetti, F. (730) 232)

Tachykinin; Substance P; Opioid; *p*-Chlorophenylalanine; 5-HT_2 receptor; 5-HT_{1A} receptor (Walker, P.D. (732) 25)

Somatostatin; Neuropeptide Y; NADPH-diaphorase; Nitric oxide synthase; Co-localization; Striatum (Figueredo-Cardenas, G. (735) 317)

Parkinson's disease; Human; Motor loop; *N*-Methyl-D-asparate receptor; Dopamine; γ-Aminobutyric acid; Glutamate; Parkinsonian symptom (Gerlach, M. (741) 142)

Preprotachykinin; Preproenkephalin; Zif/268; *p*CPA; *N*-Methyl-D-aspartate receptor (Cummings, T.J. (743) 240)

Brain; CYP2E1; Immunohistochemistry; NADPH-P450 oxidoreductase; P450; Parkinson's disease (Riedl, A.G. (743) 324)

Basic fibroblast growth factor
Excitotoxicity; Arachidonic acid; Mature hippocampal neuron; Neuroprotection (Himmelseher, S. (707) 54)

Synaptic transmission; Synaptic modulation; Intracellular calcium oscillation; GABAergic system (Tanaka, T. (723) 190)

Dopamine neuron; Neurotrophic factor; Glia; Cell culture; Mesencephalon (Hou, J.-G.G. (724) 145)

Brain injury; Astrocyte; Glial fibrillary acidic protein; Glial fibrillary acidic protein mRNA; Rat (Eclancher, F. (737) 201)

Basilar artery
Neuronal nitric oxide synthase; Retrograde tracing; Fluoro-Gold; Immunohistochemistry; Immunoelectron microscopy (Kadota, O. (706) 129)

Basolateral amygdala
Dentate gyrus; Field potential; Paired-pulse facilitation; Long-term potentiation; Amygdalo-hippocampal interaction; Anesthetized rat (Ikegaya, Y. (718) 53)

Basolateral nucleus
Anxiety; Carbamazepine; Epilepsy; Limbic system (Ebert, U. (733) 193)

Amygdala; Central nucleus; Ibotenic acid; Reward reduction; Behavioral contrast; Frustration effect; Crespi effect (Salinas, J.A. (742) 283)

Bax
Bcl-2; CA1; Gerbil; Apoptosis; Delayed neuronal death (Hara, A. (711) 249)

bax
Inner ear; *bcl-2*; *bcl-x*; In situ hybridization; Mouse (Ishii, N. (726) 123)

Bay K8644
Platelet-activating factor; Brain ischemia; Nicardipine; MK-801; Ca^{2+} influx (Nishida, K. (733) 203)

Bcl-2
Bax; CA1; Gerbil; Apoptosis; Delayed neuronal death (Hara, A. (711) 249)

bcl-2
Inner ear; *bax*; *bcl-x*; In situ hybridization; Mouse (Ishii, N. (726) 123)

Haloperidol; Oxidative stress; Neuroleptic drug; Cell death; HT22 cell (Lezoualc'h, F. (738) 176)

Bcl-2 gene family
Axotomy; Dorsal root ganglion; c-Jun transcription factor; Immunohistochemistry; DNA fragmentation; Apoptosis (Gillardon, F. (739) 244)

bcl-x
Inner ear; *bcl-2*; *bax*; In situ hybridization; Mouse (Ishii, N. (726) 123)

BDNF
Brain-derived neurotrophic factor; Growth factor; Serotonin; Firing pattern (Celada, P. (712) 293)

Beam balance
Focal cerebral ischemia; Ischemic depolarization; Penumbra; Forelimb; Postural reflex; Rat (Alexis, N.E. (706) 273)

Bed nucleus of stria terminalis
Tyrosine hydroxylase; Transient catecholaminergic neuron; Central amygdaloid nucleus; Immunohistochemistry; Wallerian degeneration (Beltramino, C.A. (706) 37)

Bed nucleus of the stria terminalis
Fos-like immunoreactivity; Registry number 72026-83-6; Hypothalamic paraventricular nucleus (Rowland, N.E. (717) 189)

Male rat; Female rat; Medial preoptic area; Medial amygdala; Midbrain; Steroids; Copulation (Coolen, L.M. (738) 67)

Behavior
Activity; Receptor antagonist; Microdialysis; Neuropeptide (Robinson, J.K. (709) 81)

Permanent focal cerebral ischemia; Middle cerebral artery occlusion; MCA-O; Wistar Kyoto rat; Brain; Neurological examination (Van der Staay, F.J. (715) 180)

Retina; RCS rat; Photoreceptor; Water maze; Retinal degeneration (DiLoreto Jr., D. (717) 165)

ORG 2766; Locomotion; Amygdala; Hyperactivity (Van Rijzingen, I.M.S. (717) 200)

Methylphenidate; Ritalin; Dose response; Psychomotor stimulant; Motor activity (Gaytan, O. (727) 13)

Focal cerebral ischemia; Middle cerebral artery occlusion; MCA; MCA-O; Rat; Strain difference; Behavioral examination (Van der Staay, F.J. (735) 271)

Transplant; Polymer; GDNF; Aging; Striatum; Dopamine (Emerich, D.F. (736) 99)

Cerebral ischemia; Glutamate; Dextromethorphan; Rat (Block, F. (741) 153)

Behavioral activation
Serotonin; Stress; Feeding; Hippocampus; Striatum; Amygdala; Frontal cortex (Rueter, L.E. (739) 57)

Behavioral contrast
Amygdala; Central nucleus; Basolateral nucleus; Ibotenic acid; Reward reduction; Frustration effect; Crespi effect (Salinas, J.A. (742) 283)

Behavioral examination
Focal cerebral ischemia; Middle cerebral artery occlusion; MCA; MCA-O; Rat; Strain difference; Behavior (Van der Staay, F.J. (735) 271)

Behavioral inhibition
Acetylcholine; Dentate gyrus; Freezing; Hippocampus; Presynaptic muscarinic receptor; Oxotremorine; Septohippocampal cholinergic system; Preweanling rat; Ultrasonic vocalization (Takahashi, L.K. (731) 230)

Behavioral lateralization
Prolactin; Stress response; Inbred mouse; *Agouti* (Waters, N.S. (724) 112)

Behavioral recovery
Olfaction; Reinnervation; Olfactory marker protein; Olfactory system; OMP; Age-related; Plasticity (Evers, S.M. (724) 129)

Behavioral seizure
Acetylcholine; Hippocampus; Medial septal nucleus; Naloxone; Rat; Microdialysis (Mizuno, T. (713) 1)

Behavioral sensitization
Presynaptic; Dopamine; Glutamate; Striatum; Substantia nigra; Basal ganglia (Garcia-Munoz, M. (720) 131)

Amphetamine; Cholinergic; Cocaine; Mice; Nicotinic; Stereotypy (Karler, R. (725) 192)

Dopamine; Fos immunohistochemistry; Mesolimbic; Nicotine; Ventral tegmental area (Panagis, G. (730) 133)

Behavioral toxicity
Hindbrain; Conditioned taste aversion; Hypothalamic–pituitary–adrenal (HPA) axis; Endocrine (Edmonds, B.K. (712) 127)

Behaviour
Transgenic rat; TGR(mREN2)27 rat; Elevated X-maze; Open-field (Wilson, W. (729) 1)

Benzamide
Poly(ADP-ribose) polymerase; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; C57Bl/6 mouse; Striatal dopamine; Cortical noradrenaline (Cosi, C. (729) 264)

Poly(ADP-ribose) polymerase; Methamphetamine; Neurotoxicity; Neuroprotection; Striatal dopamine; C57Bl/6N mouse (Cosi, C. (735) 343)

Benzodiazepine
Anxiety; Lateral septum; Medial septum; Midazolam; Ro 15-1788 (Pesold, C. (710) 161)

Back muscle; Progesterone; Lordosis; Midbrain central gray (MCG); Periaqueductal gray (PAG); Reticular formation; Muscle relaxant (Schwartz-Giblin, S. (710) 178)

Brain damage; Pathogenesis; Cerebral cortex; Hepatic encephalopathy; Human (Dodd, P.R. (710) 215)

Chlordiazepoxide; Flumazenil; Medial septum; Hippocampus; Dentate gyrus; Field potential; Synaptic plasticity; Long-term potentiation (Stackman, R.W. (717) 12)

Brainstem; Taste; Appetite; Palatability; Food intake; Feeding; Hyperphagia; Diazepam; Cerebral ventricle; Hindbrain; Anxiolytic (Peciña, S. (727) 22)

5-HT_{1A}; Amygdala; 8-OH-DPAT; Midazolam; Plus-maze; Social interaction (Gonzalez, L.E. (732) 145)

Tolerance; Withdrawal; Exploration; Locomotor activity; Serum level (Fernandes, C. (734) 236)

Benzodiazepine antagonist
(June, H.L. (734) 19)

Benzodiazepine inverse agonist
RO19-4603; Flumazenil; ZK 93426; CGS 8216; Alcohol-preferring (P) rat; $GABA_A$–BDZ (June, H.L. (734) 19)

Benzodiazepine receptor
Inverse agonist; Rat; Cerebellum; RU 34347; γ-Aminobutyric acid; Flumazenil (Pringle, A.K. (715) 155)

Benzodiazepine site
$GABA_A$ receptors; Low liability to abuse; U-101017; Cloned $GABA_A$ receptors (Im, H.K. (714) 165)

Benzodiazepine withdrawal
Stress; γ-Aminobutyric acid (GABA)-gated chloride flux; Plus maze; Anxiety; Forced swim (Martijena, I.D. (712) 239)

Benzoylecgonine
PC12 cell; Nerve growth factor; Cocaine; Neuronal differentiation; Ecgonine methyl ester; Local anesthetic (Zachor, D.A. (729) 270)

6-Benzoylheteratisine
Hippocampus; Aconitine; Lappaconitine (Ameri, A. (738) 154)

Bergmann glia
Heme oxygenase; Astrocyte; Microglia; Macrophage; Heat shock protein (Fukuda, K. (736) 68)

Bevantolol
Propranolol; Lidocaine; Nicardipine; Ca^{2+}-antagonistic action; CNS neuron (Omura, T. (706) 289)

Biceps brachii
Motor unit; Rate coding strategy; First dorsal interosseous; Muscle fiber composition (Seki, K. (719) 1)

Biceps femoris
Human gait; Sural nerve; Reflex gain; Exteroceptive reflex; Medial gastrocnemius; Lateral gastrocnemius (Duysens, J. (727) 230)

Human gait; Tendon jerk reflex; Proprioceptive reflex; Phase-dependent reflex modulation (Van de Crommert, H.W.A.A. (734) 341)

Bicuculline
Respiratory neuron; Excitatory amino acid; Glycine; GABA; Strychnine; Cat (Schmid, K. (710) 150)

ACh release; 5-HT_3 receptor; Entorhinal cortex; Striatum; Ondansetron (Ramírez, M.J. (712) 274)

Predatory attack behavior; Medial amygdala; Hypothalamus; GABA; $GABA_A$ receptor; Muscimol; Cat (Han, Y. (716) 72)

Serotonin; Substantia nigra; Deep piriform cortex; Seizure; γ-Aminobutyric acid (Pasini, A. (724) 84)

Epilepsy; Human slice; Calcium antagonist; Verapamil; Flunarizine (Straub, H. (733) 307)

Stress; Anxiety; Heart rate; Blood pressure; Adrenal hormone (Keim, S.R. (739) 46)

Bidirectional response sensitivity
Otolith; Medial medullary reticular neuron; Off-vertical axis rotation; Spatial property; Response dynamic; Cat (Chan, Y.S. (732) 159)

Otolith; Vestibular nuclear neuron; Spontaneous discharge; Off-vertical axis rotation; Rat (Lai, C.H. (739) 322)

Bilirubin
Heat shock protein; Heme-oxygenase; Hemoglobin; Stress protein; Subarachnoid hemorrhage (Matz, P. (713) 211)

Binding
Dopamine; D_1 receptor; [^{3}H]SCH23390; [^{3}H]Spiperone; Insect; Brain (Kokay, I.C. (706) 47)

Binding, ex vivo
Histamine H_3 receptor; Brain penetration; Rat; Mouse; [^{125}I]Iodophenpropit; Thioperamide; Clobenpropit (Mochizuki, T. (743) 178)

Binding protein
Cortiotropin releasing factor; Stress; Membrane; Purification; Sheep (Behan, D.P. (709) 265)

Corticotropin-releasing factor; Urocortin; Stress; Complex (Behan, D.P. (725) 263)

Biocytin
Locus coeruleus; Sacral parasympathetic nucleus; Corticotropin-releasing hormone; Retrograde tracing; Anterograde tracing (Valentino, R.J. (732) 1)

Thalamus; Retrograde tracing; Anterograde tracing; Dextran-tetramethylrhodamine; Teleostei; Gymnotiformes (Zupanc, G.K.H. (739) 201)

Dye coupling; Dendritic shrinkage; Hippocampus; Tetanus toxin; Epilepsy; Morphology (Colling, S.B. (741) 38)

Biogenic amine
Cerebral laterality; Antidepressant drug; Medial prefrontal cortex; Nucleus accumbens; Striatum (Carlson, J.N. (707) 122)

Biological basis of reinforcement
Alcohol; Frontal lobe; Prefrontal cortex; Frontal cortex brain lesion; Serotonin; Dopamine; Nucleus accumbens; Raphe; Sucrose fading (Deckel, A.W. (723) 70)

Biotinylated dextran
Taste; Gustatory; Anatomy; DiI; Nucleus tractus solitarius; Projection neuron (Williams, J.B. (737) 231)

Biotinylated dextran amine
Cortex; Varicosity; Spine; Pigeon (Veenman, C.L. (707) 1)

Bipolar cell
Ca^{2+}/calmodulin-dependent protein kinase IV; Immunohistochemistry; In situ hybridization histochemistry; Retrograde tracer (Sakagami, H. (719) 154)

Bipyridinium
Reduction potential; Electron affinity; Rat brain microsomes; Redox cycling of xenobiotics; Superoxide radical; NADPH-cytochrome *P*-450 reductase; Quinone; Nitroheterocycle; Brain ageing; Neurodegeneration (Livertoux, M.-H. (725) 207)

Bird
Angiotensin receptor; Hypothalamus; Circumventricular organ; Subfornical organ; Adrenal gland; DUP-753; PD-123319; CGP-42112A; Domestic mallard; Drinking; Osmoregulation (Schäfer, F. (711) 118)

Bismuth
Autometallography; Heavy metal; Hydrocephalus; Neurotoxicity; Tissue distribution; Mouse (Ross, J.F. (725) 137)

Rat; Astrocyte; In vitro; Metallothionein (Cowan, K. (732) 106)

Blood–brain barrier
Hypoxia; Barbiturate; Methohexital; Thiopental; Brain microvascular endothelial cell; Permeability (Fischer, S. (707) 47)

Analgesia; Dalargin; Nanoparticle; Poly(butylcyanoacrylate); Mouse (Schröder, U. (710) 121)

Axonal injury; Brain injury; Immunohistochemistry; Rat; IgG immunoreactivity; Experimental cerebral trauma (Hoshino, S. (711) 73)

Transferrin receptor; Capillary endothelium; Melanotransferrin; Human brain (Rothenberger, S. (712) 117)

Amino acid transport; Arginine vasopressin; Kinetic constant; L-system; Tyrosine; Valine (Reichel, A. (713) 232)

Aminoguanidine; Blood-cerebrospinal fluid barrier; Meningitis; Nitric oxide; Nitric oxide synthase; Neuroinflammation; Neurodegeneration (Boje, K.M.K. (720) 75)

Nerve growth factor; Regeneration; Cholinergic; Excitotoxicity; Nucleus basalis (Charles, V. (728) 193)

Interleukin-2; Gene therapy; Brain tumor; Microglia; Implantation (Nam, M. (731) 161)

Focal cerebral ischemia; Evans Blue; Rat (Belayev, L. (739) 88)

Bovine capillary endothelial cell; 4-Hydroxynonenal; Reoxygenation; Metabolism (Kunstmann, S. (740) 353)

Nucleoside; Thymidine; Perfused brain; Blood–cerebrospinal fluid barrier; Transport; Carrier-mediated (Thomas née Williams, S.A. (741) 230)

Blood–cerebrospinal fluid barrier
Aminoguanidine; Blood-brain barrier; Meningitis; Nitric oxide; Nitric oxide synthase; Neuroinflammation; Neurodegeneration (Boje, K.M.K. (720) 75)

Nucleoside; Thymidine; Perfused brain; Blood–brain barrier; Transport; Carrier-mediated (Thomas née Williams, S.A. (741) 230)

Blood flow
N-Methyl-D-aspartate; Oxygen tension; Brain temperature; Caudate putamen; Ventral hippocampus (Hara, S. (737) 339)

Blood pressure
Neonate; Immediate-early response gene; Functional activity; Gene induction; Autonomic nervous system; Catecholamine (Ruggiero, D.A. (706) 199)

Serotonin; Central nervous system; Anteroventral third ventricle (AV3V) lesion (Muntzel, M.S. (714) 104)

Estrogen; Heart rate; Serotonin receptor subtype; 5-HT_{1A} receptor; Gender difference; 8-OH-DPAT; Parasympathetic nervous system; Estradiol (Alper, R.H. (716) 224)

Pain; Analgesia; ON cell; OFF cell; Nucleus raphe magnus (Thurston, C.L. (717) 81)

Bradykinin; Baroreflex; Nucleus tractus solitarius (nTS); HOE-140; Bradykinin antagonist; Baroreceptor control of heart rate (Caligiorne, S.M. (720) 183)

Labyrinth; Cardiovascular; Sympathetic nervous system; Reticular formation (Steinbacher Jr., B.C. (720) 204)

Locus coeruleus; Corticotropin-releasing factor; Stress; Electrophysiology; Depression; Desensitization (Conti, L.H. (722) 19)

γ-Aminobutyric acid; Amygdala; Hypothalamus; Heart rate; Rat (Gören, Z. (722) 118)

Ventromedial hypothalamic nucleus; Rostral ventrolateral medulla; Multiunit activity; Heart rate; Rat (Hirasawa, M. (724) 186)

Sympathetic; Phrenic; Respiration; MK-801; Hypoxia (Miyawaki, T. (726) 64)

Stress; Anxiety; Heart rate; Adrenal hormone; Bicuculline (Keim, S.R. (739) 46)

Periaqueductal gray; Medial preoptic nucleus; Pain; Hypothalamus (Behbehani, M.M. (740) 141)

Galanin; Galanin receptor; Baroreceptor reflex; Cardiovascular; Neuropeptide; Brain; Galanin-(1-15) (Díaz, Z. (741) 32)

Stress; Dorsomedial hypothalamus; Paraventricular nucleus; Heart rate; Muscimol; Adrenocorticotrophic hormone (ACTH) (Stotz-Potter, E.H. (742) 219)

Blood–retinal barrier
GLUT1; Glucose transporter; Retinopathy; Retinal microvasculature (Kumagai, A.K. (706) 315)

BMY 7378
8-OH-DPAT; Ipsapirone; Spiperone; Electroencephalography; Rhythmic slow activity; Serotonergic neuronal activity; REM sleep; Cat (Marrosu, F. (739) 192)

BN 50730
Astrocyte; Nitric oxide; ET-18-OCH_3; Platelet activating factor; PAF; CPAF; LPS (Cardile, V. (715) 98)

Body fluid homeostasis
Circumventricular organ; Cardiovascular regulation; Plasma osmolality (Rosas-Arellano, M.P. (706) 323)

Cardiovascular regulation; Hypothalamus; Circumventricular organ (Rosas-Arellano, M.P. (707) 308)

Subfornical organ; Organum vasculosum laminae of the terminalis; Median preoptic nuceus; Cardiovascular regulation (Ciriello, J. (708) 167)

Body-on-body righting
Dopamine; Axial apraxia; Hemiparkinson's disease model; Rat (Martens, D.J. (733) 253)

Body temperature
Preoptic area; Anterior hypothalamus; Brain microdialysis, in vivo; Endotoxin; Prostaglandin E_2; Neuroimmunomodulation; Cytokine (Sehic, E. (726) 160)

Body weight
Lipopolysaccharide; Depression; Saccharin preference; Sexual behavior; Anorexia; Social exploration; Open-field test; Tricyclic antidepressant; Imipramine (Yirmiya, R. (711) 163)

Prenatal stress; Handling; Hypothalamo-pituitary-adrenal axis; Plasma glucose; Feeding behavior; Rat (Vallée, M. (712) 287)

Botulinum neurotoxin
Exocytosis; SNAP-25; VAMP-2; MgATP (Misonou, H. (737) 351)

Bötzinger neuron
Respiration; Intracellular recording; Neurobiotin; Immunohistochemistry; Thyrotropin releasing hormone (Sun, Q.-J. (715) 136)

Bovine capillary endothelial cell
4-Hydroxynonenal; Reoxygenation; Metabolism; Blood–brain barrier (Kunstmann, S. (740) 353)

BQ123
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BQ788
Endothelin; Dopamine; Turning behavior; Striatum; 6-Hydroxydopamine; BQ123 (Webber, K.M. (724) 180)

BQ-123
cAMP; ET-1; ET_A; Hematoma; Vascular reactivity; Piglet (Yakubu, M.A. (734) 149)

Brachial enlargement
Rat; Spinal cord; Forelimb; Motor nucleus; Motoneuron; Fluorescent tracer (Choi, J.Y. (738) 146)

Bradycardia
C-fiber; Cardiopulmonary receptor; Amino acid receptor; Phosphonovaleric acid; Sympatho-inhibition (Chianca Jr., D.A. (718) 185)

Bradykinin
Prostaglandin; Capsaicin; Nifedipine; ω-Conotoxin; ω-Agatoxin; Release; Voltage-sensitive calcium channel (Evans, A.R. (712) 265)

Baroreflex; Nucleus tractus solitarius (nTS); Blood pressure; HOE-140; Bradykinin antagonist; Baroreceptor control of heart rate (Caligiorne, S.M. (720) 183)

Bradykinin antagonist
Bradykinin; Baroreflex; Nucleus tractus solitarius (nTS); Blood pressure; HOE-140; Baroreceptor control of heart rate (Caligiorne, S.M. (720) 183)

Brain
Dopamine; D_1 receptor; [^{3}H]SCH23390; [^{3}H]Spiperone; Binding; Insect (Kokay, I.C. (706) 47)

Glutamate; Glutamine; Glutamine synthetase; Neonatal hypoxia (Krajnc, D. (707) 134)

Phosphocreatine; ATP; Nuclear magnetic resonance (Tsuji, M.K. (707) 146)

Muscarinic receptor; Phospholipase C; Phosphoinositide; PLC-mRNA; In situ hybridization; Aging; Fisher rat; Signal transduction (Narang, N. (708) 143)

Neurophysiology; Peptide (Nagase, H. (709) 44)

Autoradiography; Communication; Fish; Pituitary; Sexual dimorphism; Steroid (Fine, M.L. (709) 65)

Brain-derived neurotrophic factor; Serotonin; Neurotrophic factor; Platelet; Serum; ELISA immunoassay (Radka, S.F. (709) 122)

Hypoxia-ischemia; Immaturity; Neurotransmitters; Status epilepticus (Cataltepe, O. (709) 326)

Methylprednisolone; Cyclosporin A; Neural transplantation; Xenograft; Immunology; Inflammation; Cytokine; Rat (Duan, W.-M. (712) 199)

Hypoxia; ischemia; Oxidation-reduction (redox); Perinatal; Rat (Yager, J.Y. (712) 230)

NADPH-diaphorase; DPIP; Enzyme histochemistry; Infrared; Snake (Jiang, P.-J. (713) 168)

Permanent focal cerebral ischemia; Middle cerebral artery occlusion; MCA-O; Wistar Kyoto rat; Behavior; Neurological examination (Van der Staay, F.J. (715) 180)

Neurocalcin; Calcium-binding protein; Alzheimer's disease; Synapse; Synaptophysin (Shimohama, S. (716) 233)

c-Fos; Morphine; Naltrexone; Opioid; Withdrawal; Guinea-pig (Chahl, L.A. (717) 127)

Cerebral ischemia; Reperfusion; Oxidative stress; Glutathione; α-Lipoic acid (Panigrahi, M. (717) 184)

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5α-reductase; Immunohistochemistry; Western blot; Rat (Tsuruo, Y. (722) 207)

Neuronatin; Chromosome 20; Development; Proteolipid protein; Phospholamban; PMP1; Cation channel; ATPase; Neural restrictive silencer element (Dou, D. (723) 8)

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Galanin; Galanin receptor; Localization; Radioreceptor assay; Immunohistochemistry; Quail (Azumaya, Y. (727) 187)

Androgen; Marking; Preference; Sexual behavior; Ultrasonic vocalizations; Urine; Mouse (Sipos, M.L. (729) 29)

Hypoxia; NMDA receptor; CPP (Fritz, K.I. (729) 66)

Kainic acid; Excitotoxin; Nitric oxide synthase; NADPH diaphorase; Glial cell; Endothelial cell (Lei, D.-L. (730) 199)

Morphine; Opioid; U50,488H; Fos; Reward; Guinea-pig (Bot, G. (731) 45)

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Muscarinic receptor; Nicotinic receptor; Development; Chronic treatment; Nicotine (Zhu, J. (732) 257)

NMDA receptor; Glycine binding; Development; Hypoxia; Fetus (Razdan, B. (733) 15)

Growth inhibitory factor; Metallothionein; Rat; Immunohistochemistry; Ultrastructure (Yamada, M. (735) 257)

Insulin; Spinal cord; Dorsal root ganglia; mRNA; Polymerase chain reaction; In solution hybridization; Electron microscopy (Schechter, R. (736) 16)

Hyaluronan receptor; Nerve cell; Plasticity (Fuxe, K. (736) 329)

Cytochrome P450; CYP2D; Metabolism; Antidepressant; Inhibitor (Sequeira, D.J. (738) 24)

Neuronatin; PC12; Nerve growth factor; Development (Joseph, R. (738) 32)

FITC-dextran; Cerebral venules; Cerebral microcirculation; Hoe-140; Vascular permeability; Rat (Mayhan, W.G. (738) 337)

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Neuropeptide; Tachykinin; Radioimmunoassay; High performance liquid chromatography; Nervous system, insect; Intestine (Muren, J.E. (739) 314)

5α-Reductase; Pregnancy; Prenatal development; Neurosteroids; Open-field behavior; Rodent; Finasteride (Proscar) (Lephart, E.D. (739) 356)

Galanin; Galanin receptor; Baroreceptor reflex; Blood pressure; Cardiovascular; Neuropeptide; Galanin-(1-15) (Díaz, Z. (741) 32)

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Serotonin; 5-Hydroxytryptophan; Stress; Neurotensin; Rat (Dilts, R.P. (742) 294)

FITC-dextran; Cerebral venule; Pial arteriole; Nitric oxide; L-NMMA; Rat (Mayhan, W.G. (743) 70)

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Huntingtin; mRNA; 3′ Untranslated region; Tissue distribution; Mouse (Casanova, E. (743) 320)

Basal ganglia; CYP2E1; Immunohistochemistry; NADPH-P450 oxidoreductase; P450; Parkinson's disease (Riedl, A.G. (743) 324)

Brain ageing
Reduction potential; Electron affinity; Rat brain microsomes; Redox cycling of xenobiotics; Superoxide radical; NADPH-cytochrome *P*-450 reductase; Quinone; Nitroheterocycle; Bipyridinium; Neurodegeneration (Livertoux, M.-H. (725) 207)

Brain atrophy
Astrocyte; Neuroglia; Alcohol; DNA synthesis; Microencephaly; Alcoholism; Fetal alcohol syndrome (Kane, C.J.M. (731) 39)

Brain capillary
Brain hypoxia; Brain vascularity; Glucose transporter (GLUT-1) (Harik, N. (737) 335)

Brain concentration
EL mouse; Epilepsy; Antiepileptic drug; Zonisamide; Drug interaction; Serum concentration (Nagatomo, I. (731) 190)

Brain damage
Pathogenesis; Cerebral cortex; Benzodiazepine; Hepatic encephalopathy; Human (Dodd, P.R. (710) 215)

Brain-derived neurotrophic factor
Serotonin; Neurotrophic factor; Platelet; Serum; Brain; ELISA immunoassay (Radka, S.F. (709) 122)

Norepinephrine; Dopamine; Serotonin; Raphe nucleus; Periaqueductal gray; Hippocampus; Cortex; Nucleus accumbens; Hypothalamus; Substantia nigra (Siuciak, J.A. (710) 11)

BDNF; Growth factor; Serotonin; Firing pattern (Celada, P. (712) 293)

Transplantation Immunology; Glial cell line derived neurotrophic factor; Neurotrophin-3; Ramified microglia; Reactive microglia (Shinoda, M. (722) 153)

Nerve growth factor; TrkB receptor; Cortex; Protein kinase C; cyclic AMP (Barnea, A. (732) 52)

Nerve growth factor; Neurotrophin-3; PC2; Epileptiform activity; Co-regulation; Co-localization; In situ hybridization (Meyer, A. (732) 121)

Release; Synaptosome; Slice; Superfusion; Veratridine; Cortex; Hippocampus (Androutsellis-Theotokis, A. (743) 40)

Brain development
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Brain endothelium
Cell adhesion molecule; CD31; Primary culture (Wong, D. (731) 217)

Brain energy metabolism
Cytochrome oxidase histochemistry; Hypobaric hypoxia; Hypometabolism; Hypoxic adaptation (LaManna, J.C. (720) 1)

Brain extract
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Brain–gut axis
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Brain hypertrophy
Rota-Rod treadmill; Cerebral palsy; Sensorimotor; Perinatal neural injury; Rat; Contralateral hemisphere hypertrophy (Jansen, E.M. (708) 93)

Brain hypoxia
Brain vascularity; Brain capillary; Glucose transporter (GLUT-1) (Harik, N. (737) 335)

Brain inflammation
Lipopolysaccharide, intracerebral injection; Microglial activation; Monocyte recruitment; Rat; Irradiation (Montero-Menei, C.N. (724) 55)

Brain injury
Axonal injury; Blood–brain barrier; Immunohistochemistry; Rat; IgG immunoreactivity; Experimental cerebral trauma (Hoshino, S. (711) 73)

Fluid percussion; Protein kinase C; Diacylglycerol (Padmaperuma, B. (714) 19)

Spatial memory; Free radical; Deferoxamine (Long, D.A. (717) 109)

Newborn; Hypoxia; Na^+,K^+-ATPase; Outcome; Energy metabolism (Rosenkrantz, T.S. (730) 52)

Astrocyte; Glial fibrillary acidic protein; Glial fibrillary acidic protein mRNA; Basic fibroblast growth factor; Rat (Eclancher, F. (737) 201)

Nuclear magnetic resonance; Trauma (Heath, D.L. (738) 150)

Hypoxia; Ischemia; Development; Therapy; Neonate; Hypocalcemia (Sola, A. (741) 294)

Brain interstitium
Recombinant human nerve growth factor; Diffusion; Controlled release; Diffusion; Elimination; Polymer (Krewson, C.E. (727) 169)

Brain ischemia
Platelet-activating factor; Nicardipine; Bay K8644; MK-801; Ca^{2+} influx (Nishida, K. (733) 203)

Brain microdialysis
Immobilization stress; Hippocampus; Acetylcholine; Glucose; Epinephrine; Norepinephrine (Tajima, T. (720) 155)

Brain microdialysis, in vivo
Preoptic area; Anterior hypothalamus; Endotoxin; Body temperature; Prostaglandin E_2; Neuroimmunomodulation; Cytokine (Sehic, E. (726) 160)

Brain microvascular endothelial cell
Hypoxia; Barbiturate; Methohexital; Thiopental; Blood-brain barrier; Permeability (Fischer, S. (707) 47)

Brain natriuretic peptide
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Brain neuron
Antioxidant; *Ginkgo biloba* extract; Hydrogen peroxide; Oxidative stress (Oyama, Y. (712) 349)

Brain nitric oxide synthase
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Brain penetration
Histamine H_3 receptor; Binding, ex vivo; Rat; Mouse; [^{125}I]Iodophenpropit; Thioperamide; Clobenpropit (Mochizuki, T. (743) 178)

Brain plasticity
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Brain slice
Aging; Glucose; Hippocampus; Ion transport; Synaptic transmission (Roberts Jr., E.L. (708) 16)

Cortex; Brainstem; Chronic hypoxia; Neurophysiology; In vitro (O'Reilly, J.P. (711) 203)

$GABA_B$; Receptor; cAMP; Coincident signaling (Cunningham, M.D. (720) 220)

Area postrema; Baroreflex; Integration; Intracellular recording; Nucleus tractus solitarius (Cai, Y. (724) 121)

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Age; Hippocampus; SNARF; pH regulation; Fluorescence (Roberts Jr., E.L. (735) 339)

Hippocampus; CA1; $GABA_B$; Receptor; Synaptic transmission; Presynaptic; Cerebrolysin (Xiong, H. (737) 188)

GABA release; Dopamine; 6-Hydroxydopamine; Neostriatum; Parkinson's disease (Harsing Jr, L.G. (738) 142)

Perirhinal cortex; Amygdala-kindling; Field potential, in vitro; Epilepsy (Matsumoto, Y. (741) 44)

Cycloheximide; Protein synthesis inhibition; Global cerebral ischemia (Buchkremer-Ratzmann, I. (743) 329)

Brain-specific protein
PNP 14; Phosphoneuroprotein; Neuron-specific protein; Enzyme immunoassay (Nakajo, S. (741) 180)

Brain spectrin
Fodrin; Membrane cytoskeleton; Alzheimer's disease; Neuritic plaque; Amyloid plaque; Neurodegeneration (Sihag, R.K. (743) 249)

Brainstem
Cortex; Chronic hypoxia; Neurophysiology; In vitro; Brain slice (O'Reilly, J.P. (711) 203)

Glucocorticoid; Dorsal horn; Nociception; Nitric oxide; Nitric oxide synthase (Hathaway, C.B. (712) 143)

Acetylcholine; REM sleep; Stimulation (Thakkar, M. (723) 223)

c-Fos; Exercise; Rat (Iwamoto, G.A. (726) 109)

Taste; Appetite; Palatability; Food intake; Feeding; Benzodiazepine; Hyperphagia; Diazepam; Cerebral ventricle; Hindbrain; Anxiolytic (Peciña, S. (727) 22)

Vasoactive intestinal peptide; VIP receptor; REM sleep deprivation; Stress; Diencephalon (Jiménez-Anguiano, A. (728) 37)

Immunocytochemistry; Nitric oxide synthase; Noradrenaline; Rat (Simonian, S.X. (732) 247)

Retrograde tracing; Fluorescent microsphere; Periaqueductal grey; Ventral medulla; Rat (Hudson, P.M. (733) 138)

Heart failure; Nitric oxide synthase; Gene expression; Hypothalamus; Sympathetic activity (Patel, K.P. (734) 109)

Cerebellum; Cerebral cortex; Fetal alcohol syndrome; Hippocampus; Microencephaly (Miller, M.W. (734) 286)

c-*fos*; Sexual behavior; Gonadotrophin (Condé, G.L. (735) 197)

Brainstem midline
Raphe nuclei; Anti-emetic action (Miller, A.D. (737) 51)

Brainstem slice
γ-Aminobutyric acid; Rostro-ventrolateral medulla; Intracellular recording; Cardiovascular regulation; Baroreflex; Pacemaker neuron (Hayar, A. (709) 173)

Brain stimulation
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Tonic pain; Chronic pain; Stimulation-produced analgesia; Antinociception; Limbic system (Fuchs, P.N. (743) 116)

Brain stimulation reward
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Brain temperature
N-Methyl-D-aspartate; Oxygen tension; Blood flow; Caudate putamen; Ventral hippocampus (Hara, S. (737) 339)

Brain tumor
Interleukin-2; Gene therapy; Blood–brain barrier; Microglia; Implantation (Nam, M. (731) 161)

Brain vascularity
Brain hypoxia; Brain capillary; Glucose transporter (GLUT-1) (Harik, N. (737) 335)

Brain vasopressin receptor
Antidiuretic hormone; Vasopressin antagonist; OPC-31260; 1-Desamino-8-D-arginine vasopressin; Increased plasma osmolality (Liu, H.-W. (719) 14)

Bromocriptine
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Bromodeoxyuridine
Microgyria; [^{3}H]Thymidine; S-phase marker; Neocortex; Corticogenesis (Rosen, G.D. (727) 71)

Brown adipose tissue
Brown fat; Thermogenesis; Ventromedial hypothalamus; Ventral lateral thalamic nucleus; Zona incerta (Kelly, L. (715) 172)

Brown fat
Brown adipose tissue; Thermogenesis; Ventromedial hypothalamus; Ventral lateral thalamic nucleus; Zona incerta (Kelly, L. (715) 172)

Bufo marinus
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Bullfrog
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Odor discrimination; Odorant receptor; Single olfactory neuron; Whole-cell patch clamp; Ciliary recording; Cross-adaptation (Kashiwayanagi, M. (738) 222)

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Nicotinic acetylcholine receptor; H19-7 cell; Hippocampal neuron (Komourian, J. (718) 31)

Acetylcholine; Nicotine; Septal lesion; Pyramidal cell; Hippocampus; Cytisine (Frazier, C.J. (727) 217)

Bupivacaine
Pain; Peripheral neurectomy; Autotomy; Central sensitization; Cingulum bundle (Magnusson, J.E. (723) 214)

Burst
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Burst activity
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Bursting
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Bursting activity
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Bursting pattern
Dopamine exocytosis; Inter-spike interval; Burst; Distribution; Cell body; Giant dopamine neuron; *Planorbis corneus* (Chen, G. (733) 119)

Buspirone
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Haloperidol; 5-HT_{1A} receptor; c-*Fos*; Striatum; Nucleus accumbens; Immunohistochemistry; Lesopitron (E-4424) (Palacios, G. (742) 141)

2,3-Butanedione monoxime
Ventromedial hypothalamic nucleus; Glycine; Chloride current; Protein kinase; Phosphorylation; Phorbol 12,13-dibutyrate; Chelerythrine (Ye, J.-H. (735) 20)

Butorphanol
Morphine; Physical dependence; Glutamate; Locus coeruleus; Microdialysis; Diltiazem; L-type Ca^{2+} channels (Tokuyama, S. (722) 212)

Butyryl cholinesterase
Striate cortex; Microvascularization; Development; Histochemistry (Argandoña, E.G. (732) 43)

C

CA1
Ischemia; Carotid ligation; Memory; Alzheimer's disease (Pappas, B.A. (708) 50)

NADH; Hippocampal slice; Oxidative phosphorylation; Chemical inhibition; Uncoupling; Selective vulnerability; CA3 (Riepe, M.W. (710) 21)

ADP-ribosylation; Mono-ADP-ribosylation; Poly-ADP-ribosylation; Nitric oxide; *N*-Methyl-D-aspartate; Traumatic brain injury; Hippocampus (Wallis, R.A. (710) 169)

Bax; Bcl-2; Gerbil; Apoptosis; Delayed neuronal death (Hara, A. (711) 249)

Hippocampus; CA3; Kainic acid; Water maze; Passive avoidance; Spatial learning; Memory (Stubley-Weatherly, L.A. (716) 29)

Carbon monoxide; Gene expression; Heme; Hippocampus; Hypoxia; Ischemia; Ischemic tolerance; Neuronal death; Neuroprotection; Protein synthesis; Stroke (Gage, A.T. (719) 172)

Long-term potentiation; Hippocampus; Discriminatory avoidance learning (Izaki, Y. (723) 162)

Epilepsy; Hippocampus; Kindling; Perforant path (Krahl, S.E. (723) 196)

Hyperthermia; Hippocampus; Synaptic Transmission; CA3; LTP; Kindling; Rat (Minamiura, Y. (732) 209)

Nitric oxide synthase; Immunocytochemistry; Densitometry; Histochemistry; Long-term potentiation (Vaid, R.R. (733) 31)

Brain slice; Hippocampus; $GABA_B$; Receptor; Synaptic transmission; Presynaptic; Cerebrolysin (Xiong, H. (737) 188)

Mineralocorticoid receptor; Glucocorticoid receptor; Aldosterone; Corticosterone; Synaptic plasticity; Long-term potentiation (Pavlides, C. (738) 229)

CA3
GAP-43; Kainate; Astrocyte; Ibotenic acid; Glial fibrillary acidic protein (GFAP); Hippocampus; Dentate gyrus (Meberg, P.J. (706) 217)

NADH; Hippocampal slice; Oxidative phosphorylation; Chemical inhibition; Uncoupling; Selective vulnerability; CA1 (Riepe, M.W. (710) 21)

Purinoceptor; Calcium current; Potentiation; Voltage clamp (Dave, S. (715) 208)

Hippocampus; CA1; Kainic acid; Water maze; Passive avoidance; Spatial learning; Memory (Stubley-Weatherly, L.A. (716) 29)

Hyperthermia; Hippocampus; Synaptic Transmission; CA1; LTP; Kindling; Rat (Minamiura, Y. (732) 209)

Synaptic potentiation; Long-term potentiation; Fimbria; Lateral septum; Rat (Garcia, R. (737) 169)

Ca^{2+}
Neurotoxicity; Cell death; Hippocampus; Glutamate; Uptake; NMDA; Na^+ (Takahashi, M. (735) 1)

$[Ca^{2+}]_o$
Glucose deprivation; Kainate; Glutamate; Presynaptic Ca^{2+} influx; Field potential; Hippocampal slice; Rat (Alici, K. (738) 109)

Ca^{2+}-activated K^+ channel
Apamin; Neurotoxin; Sleep; Waking; Insomnia (Gandolfo, G. (736) 344)

Ca^{2+}-antagonistic action
Bevantolol; Propranolol; Lidocaine; Nicardipine; CNS neuron (Omura, T. (706) 289)

Ca-ATPase
Calcium; Cochlea; Hearing; Motility; Outer hair cell (Zine, A. (721) 1)

Ca^{2+} ATPase
Ca^{2+} current; Ca^{2+} influx; Ca^{2+} release; Mercury; Microsome; Methylmercury; Glutathione (Freitas, A.J. (738) 257)

Cabergoline
Parkinson's disease; MPTP; Dyskinesia; $GABA_A$ receptor; Dopamine D_2 receptor (Grondin, R. (735) 298)

Ca^{2+}-binding protein
EF-hand; Mollusc; *Helix pomatia*; Invertebrate; Immunocytochemistry; Electrophysiology (Kubista, H. (716) 53)

Ca^{2+}/calmodulin-dependent protein kinase I
Northern blot analysis; In situ hybridization; Development; Rat brain (Sawamura, Y. (706) 259)

Ca^{2+}/calmodulin-dependent protein kinase II
Forebrain ischemia; Translocation; Phosphorylation (Aronowski, J. (709) 103)

Ca^{2+}/calmodulin-dependent protein kinase IV
Immunohistochemistry; In situ hybridization histochemistry; Retrograde tracer; Bipolar cell (Sakagami, H. (719) 154)

Ca^{2+}/calmodulin-stimulation
Adenylyl cyclase; Reverse transciption-polymerase chain reaction; Neuroblastoma cell line; Western blot (Kluxen, F.-W. (740) 169)

Ca^{2+} channel
Carotid body; Type I cell; Chronic hypoxia; Nifedipine; ω-Conotoxin GVIA (Peers, C. (739) 251)

L-type Ca^{2+} channels
Morphine; Butorphanol; Physical dependence; Glutamate; Locus coeruleus; Microdialysis; Diltiazem (Tokuyama, S. (722) 212)

Ca^{2+} current
Ca^{2+} influx; Ca^{2+} release; Mercury; Microsome; Ca^{2+} ATPase; Methylmercury; Glutathione (Freitas, A.J. (738) 257)

Ca^{2+}-dependent current
1,1′-Dioctadecyl-3,3,3′,3′-tetramethylindocarbocyanine perchlorate (DiI); Sympathetic preganglionic neuron (SPN), visually identified; Whole-cell slice patch delayed rectifier current; A-current; Inward rectifying current (Miyazaki, T. (743) 1)

CAG trinucleotide repeat
Dentatorubral-pallidoluysian atrophy; Two-dimensional electrophoresis; Isoelectric variant; Lymphoblastoid cell; Post-translational modification (Yazawa, I. (732) 154)

^{45}Ca influx
Na channel; Up-regulation; Cyclic adenosine monophosphate (cyclic AMP)-dependent protein kinase; [^{3}H]Saxitoxin binding; ^{22}Na influx; Catecholamine secretion; Adrenal medulla (Yuhi, T. (709) 37)

Ca^{2+} influx
Platelet-activating factor; Brain ischemia; Nicardipine; Bay K8644; MK-801 (Nishida, K. (733) 203)

Ca^{2+} current; Ca^{2+} release; Mercury; Microsome; Ca^{2+} ATPase; Methylmercury; Glutathione (Freitas, A.J. (738) 257)

Calbindin
Calretinin; Cuneate nucleus; Gracile nucleus; Parvalbumin; Somatosensory; Synaptic organization (Crockett, D.P. (707) 31)

Calcium binding protein; Parvalbumin; Thalamocortical pathway; Somatosensory system; Nociception (Lin, R.C.S. (711) 50)

Calbindin D_{28K}
Neuronal culture; Oxydative stress; Neurodegeneration (Hugon, J. (707) 288)

Calbindin-D_{28}
Myenteric neuron; Pulsed nitrogen laser; Intracellular free calcium; ATP; AH/Type 2; Dogiel type II; S/Type 1; Enteric glia (Christofi, F.L. (725) 241)

Calbindin D28k
Parvalbumin; Trigeminal ganglion; Neuropeptide Y; Nerve injury (Wakisaka, S. (707) 228)

Calbindin-D28k
Calretinin; Carbonic anhydrase; Trigeminal ganglion; Tooth pulp; Immunohistochemistry; Rat (Ichikawa, H. (715) 71)

Social stress; Hippocampus; Calcium; Calcium-binding protein; Parvalbumin (Krugers, H.J. (729) 289)

Calbindin D-28k
Calcitonin gene-related peptide; Immunohistochemistry; Jugular ganglion; NADPH-diaphorase; Nodose ganglion; Petrosal ganglion; Tyrosine hydroxylase (Ichikawa, H. (735) 325)

Calbindin immunohistochemistry
Freely moving rat; Matrix; Single-unit recording; Striatum; Striosome (Trytek, E.S. (707) 221)

Calcineurin
N-Methyl-D-aspartate (NMDA) receptor; Long-term potentiation; Depotentiation; FK506; Cyclosporin A; Synaptic plasticity; Hippocampus (Lu, Y.-F. (729) 142)

Cyclosporin A; Dephosphorylation; Immunosuppressant; Memory; Phosphatase (Bennett, P.C. (730) 107)

Calcitonin
Adrenomedullin; Amylin; Calcitonin gene-related peptide; Receptor; Astrocyte; Hybrid cell (Zimmermann, U. (724) 238)

Calcitonin gene-related peptide (CGRP)
Ultrastructure; Stereology; Glial cell (Carlton, S.M. (711) 16)

Calcitonin gene-related peptide
Pituitary adenylate cyclase activating polypeptide; Human; Dorsal horn; Intermediolateral cell column; Dorsal root ganglion; Substance P (Dun, E.C. (721) 233)

Substance P; Sensory nerve sprouting; Reparative dentin; Inflammation; Steroid; Pain (Ferrari, A.M. (723) 125)

Adrenomedullin; Amylin; Calcitonin; Receptor; Astrocyte; Hybrid cell (Zimmermann, U. (724) 238)

Galanin; Dual innervation; Esophagus; Rat; Immunohistochemistry (Kuramoto, H. (734) 186)

Calbindin D-28k; Immunohistochemistry; Jugular ganglion; NADPH-diaphorase; Nodose ganglion; Petrosal ganglion; Tyrosine hydroxylase (Ichikawa, H. (735) 325)

Calcium
Hippocampal slice; Autofluorescence; Fura dye; Cyanide; Kainate (Brooke, S.M. (706) 283)

IGF; IGF analog; Insulin; Neuronal cell death (Harper, S.J. (709) 303)

Antidepressant; Astrocyte; Lithium; Noradrenaline (Chen, Y. (711) 245)

Trauma; Axotomy; Sympathetic neuron; Neurotoxicity; Calcium channel; Confocal microscopy (Sattler, R. (719) 239)

Calcium channel; Immunoblotting; Immunochemistry; Neural pathway; Retina (Micci, M.A. (720) 139)

Ca-ATPase; Cochlea; Hearing; Motility; Outer hair cell (Zine, A. (721) 1)

Visual cortex; Glutamate; Noradrenaline; Synaptic plasticity; Imaging; Synergy; Nonlinear interaction (Yang, B. (721) 181)

NMDA; Flow cytometry; MK-801; Cerebellum; Granule cell; Oxidative stress; Indo-1 (Sureda, F.X. (723) 110)

Carotid body; Glomus cell; Intercellular coupling; A23187; BAPTA/AM; Dimethylsulfoxide (Abudara, V. (725) 125)

Social stress; Hippocampus; Calcium-binding protein; Calbindin-D28k; Parvalbumin (Krugers, H.J. (729) 289)

Thyrotropin-releasing hormone; Glutamate; Indo-1; Imaging; Anticonvulsant (Koenig, M.L. (730) 143)

Cyanide; Hypoxia; NMDA antagonist; Neurotoxicity; Fura-2 (Ferger, D. (732) 87)

Axotomy; Culture; Spinal cord injury; Ion; Trauma; Gray matter; White matter (Rosenberg, L.J. (734) 349)

Heat shock protein; Cell death; Na^+–Ca^{2+} exchanger; Glia (astrocyte) (Takuma, K. (735) 265)

Chronic lead; Dentate gyrus; Glutamate release; GABA release; Microdialysis; Paired-pulse facilitation; Paired-pulse depression; MK-801 (Lasley, S.M. (736) 125)

Inositol hexakisphosphate; Phytate; Zinc; Neuronal cytotoxicity; Hippocampus; Acetylcholinesterase (Lees, G.J. (741) 134)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; *N*-Methyl-4-phenylpyridine; Common marmoset; Nimodipine; Neurotoxicity; Striatum; Substantia nigra (Kupsch, A. (741) 185)

Calpain; Dorsal root ganglia; Neurite outgrowth; Suramin; Neurotoxicity (Sun, X. (742) 149)

Calcium ion transport ATPase; Calcium pump; SERCA; Brain; Purkinje neuron (Baba-Aissa, F. (743) 141)

Calcium-activated potassium conductance
Extracellular recording; Ventral tegmental area; Adrenalectomy; Mineralocorticoid receptor (Overton, P.G. (737) 146)

Calcium antagonist
Epilepsy; Human slice; Verapamil; Flunarizine; Bicuculline (Straub, H. (733) 307)

Epilepsy; Intracellular calcium; Verapamil; Channel; *Helix pomatia* (Wiemann, M. (734) 49)

Calcium ATPase
Synaptic terminal; Synaptic vesicle; Edinger-Westphal; Calyx; Cholinergic (Fujii, J.T. (734) 193)

Calcium-binding protein
Confocal microscopy; Glutamate decarboxylase; Hippocampal formation; Immunocytochemistry; Colocalization (Miettinen, M. (706) 113)

Basal ganglia; Immunohistochemistry; Squirrel monkey; *Saimiri sciureus*; Neurodegenerative disease (Fortin, M. (708) 201)

Calretinin; Co-occurrence; Striatum; Basal ganglia (Figueredo-Cardenas, G. (709) 145)

Calcium binding protein
Calbindin; Parvalbumin; Thalamocortical pathway; Somatosensory system; Nociception (Lin, R.C.S. (711) 50)

Calcium-binding protein
Neurocalcin; Alzheimer's disease; Brain; Synapse; Synaptophysin (Shimohama, S. (716) 233)

Interneuron; Parvalbumin; Immunocytochemistry; Cingulate cortex; Neuronal circuitry (Kalus, P. (729) 45)

Accessory olfactory system; Immunohistochemistry; Neurocalcin; Rat; Vomeronasal organ (Porteros, A. (729) 82)

Social stress; Hippocampus; Calcium; Calbindin-D28k; Parvalbumin (Krugers, H.J. (729) 289)

Neurodegenerative disorder; Huntington's chorea; Neurokinin receptor; Basal ganglia; Striatum (Cicchetti, F. (730) 232)

Picrotoxin; Immunohistochemistry; Neurofilament protein; Fos (Hiscock, J.J. (738) 301)

Calcium binding protein
Calretinin; Double immunohistochemical labeling; Hybridization histochemistry, in situ; Glutamate receptor; Reticular formation (Winsky, L. (741) 123)

Calcium-binding proteins
Monkey; Primary motor cortex; Precentral cortex; Corticospinal tract; Immunocytochemistry; Seizure; Epilepsy (Preuss, T.M. (712) 353)

Calcium / calmodulin-dependent protein kinase II
Hippocampus; Morris water maze; Excitatory synapse; KN-62 (Tan, S.-E. (711) 234)

Calcium channel
Dorsal root ganglia; Frog; Cell size (Holohean, A.M. (711) 138)

Trauma; Axotomy; Sympathetic neuron; Calcium; Neurotoxicity; Confocal microscopy (Sattler, R. (719) 239)

Calcium; Immunoblotting; Immunochemistry; Neural pathway; Retina (Micci, M.A. (720) 139)

Focal cerebral ischemia; Diffusion-weighted MRI; ω-Conopeptide; SNX-111; Excitotoxicity; Rat (Yenari, M.A. (739) 36)

Presynaptic nicotinic receptor; Intraterminal calcium; Sympathetic neuron; Noradrenaline release (Doležal, V. (740) 75)

Calcium channel activator
Neuroprotection; Neuronal acetylcholine receptor; Glutamate; ABT-418; Cholinergic channel activator (Donnelly-Roberts, D.L. (719) 36)

Calcium current
Frog neuromuscular junction; Niflumic acid; Non-steroidal antiinflammatory drug; Potassium current; Presynaptic current; Acetylcholine; Quantal transmitter release; Synaptic depression (Miralles, F. (714) 192)

Purinoceptor; CA3; Potentiation; Voltage clamp (Dave, S. (715) 208)

HEPES; Membrane potential; Potassium current (Cowan, A.I. (717) 69)

Angiotensin; Cell culture; Retina; Retinal ganglion cells; Neuromodulation (Guenther, E. (718) 112)

Lead; PC12 cell; Patch clamp; Neurotoxicity (Hegg, C.C. (738) 333)

Calcium-dependent ATPase
Cerebrocortical synaptosome; Lipid peroxidation; Intracellular calcium; Calcium uptake (Pereira, C. (713) 269)

Calcium influx
Noradrenaline release; Neuronal culture; Microfluorimetry (Doležal, V. (721) 101)

Calcium ion
Cyclic adenosine monophosphate; Circadian rhythm; Diurnal rhythm; Melatonin; Chick pineal (Nikaido, S.S. (716) 1)

5-Hydroxytryptamine uptake; Cerebral cortex; Protein kinase; Calmodulin; Transporter (Yura, A. (738) 96)

Calcium ion influx
Cerebral ischemia; Microsphere embolism; Synaptosome; Noradrenaline release; Noradrenaline uptake; Rat (Hayashi, H. (737) 64)

Calcium ion transport ATPase
Calcium; Calcium pump; SERCA; Brain; Purkinje neuron (Baba-Aissa, F. (743) 141)

Calcium measurement
Fiber-optic plate; Video microscopy; Fluorescence microscopy; Hippocampus; Anoxia; In vivo experiment (Hirano, M. (732) 61)

Calcium permeability
Kindling; AMPA receptor; Anticonvulsant; Joro spider toxin; 1-naphthylacetyl spermine (Takazawa, A. (706) 173)

Calcium pump
Calcium; Calcium ion transport ATPase; SERCA; Brain; Purkinje neuron (Baba-Aissa, F. (743) 141)

Calcium uptake
Cerebrocortical synaptosome; Lipid peroxidation; Intracellular calcium; Calcium-dependent ATPase (Pereira, C. (713) 269)

Caldesmon
Amphetamine sensitization; Dopamine receptor; *N*-Methyl-D-aspartate (NMDA) receptor; Calmodulin-binding protein; Glutamate (Gnegy, M.E. (734) 35)

Calmodulin
Dendritic spine; Golgi complex; Mitochondria; PKC; RC3 (Neuner-Jehle, M. (733) 149)

5-Hydroxytryptamine uptake; Calcium ion; Cerebral cortex; Protein kinase; Transporter (Yura, A. (738) 96)

Calmodulin antagonist
Choroid plexus; Taurine; Hypo-osmotic stress; Volume regulation; Niflumic acid (Keep, R.F. (715) 17)

Calmodulin-binding protein
Amphetamine sensitization; Dopamine receptor; *N*-Methyl-D-aspartate (NMDA) receptor; Caldesmon; Glutamate (Gnegy, M.E. (734) 35)

Calmodulin inhibitor
Pain; Spinal analgesia; Central hyperalgesia; Formalin test; Tail flick test; Rotarod test; Rat (Menendez, L. (731) 114)

Caloric stimulation
Locus coeruleus; Rat; GABA; Iontophoresis; Vestibulo-autonomic reflex; Labyrinthectomy; Electrical vestibular stimulation (Nishiike, S. (712) 84)

Calpain
Seizure; Spectrin; Glutamate; Hippocampus; Neuropathology (Bi, X. (726) 98)

Calcium; Dorsal root ganglia; Neurite outgrowth; Suramin; Neurotoxicity (Sun, X. (742) 149)

Calretinin
Calbindin; Cuneate nucleus; Gracile nucleus; Parvalbumin; Somatosensory; Synaptic organization (Crockett, D.P. (707) 31)

Calcium-binding protein; Co-occurrence; Striatum; Basal ganglia (Figueredo-Cardenas, G. (709) 145)

Calbindin-D28k; Carbonic anhydrase; Trigeminal ganglion; Tooth pulp; Immunohistochemistry; Rat (Ichikawa, H. (715) 71)

Oxytocin; Vasopressin; Supraoptic nucleus; Paraventricular nucleus; Anterior commissural nucleus; Suprachiasmatic nucleus (Arai, R. (735) 154)

Calcium binding protein; Double immunohistochemical labeling; Hybridization histochemistry, in situ; Glutamate receptor; Reticular formation (Winsky, L. (741) 123)

Calyculin A
Glial fibrillary acidic protein; Dephosphosphorylation; Okadaic acid; Microcystin-LR; Hippocampal slice (Vinadé, L. (732) 195)

Calyx
Calcium ATPase; Synaptic terminal; Synaptic vesicle; Edinger-Westphal; Cholinergic (Fujii, J.T. (734) 193)

Ca / Mg-dependent endonuclease
Closed head injury; Head trauma; Apoptosis; Cell death; Nucleus; DNA fragmentation (Pravdenkova, S.V. (729) 151)

Ca^{2+}-Mg^{2+} endonuclease
Zinc; Delayed neuronal death; Apoptosis (Matsushita, K. (743) 362)

Ca^{2+} mobilization
Intracellular Ca^{2+} pool; Mitochondria; Arachidonic acid; Sphingosylphosphorylcholine; Sphingosine (Huang, W.-C. (718) 151)

Canary
Singing; HVC; Testosterone; Gap-junction; Plasticity (Gahr, M. (712) 69)

Cancer
Adenylate cyclase; ACTH; cAMP; Pituitary gland; Protein kinase C; Receptor desensitization; Receptor down-regulation (Dieterich, K.D. (733) 113)

CA1 pyramidal cell
Hippocampal slice; Fluorocitrate; Astrocyte; Anoxia; Aglycemia; MK-801; Rat (Nakanishi, H. (732) 232)

CA1 pyramidal neuron
Hippocampal slice; Hemoglobin; *N*ω-Nitro-L-arginine; Synaptic transmission; Stroke; Head injury; Cerebrovascular diseases (Yip, S. (713) 134)

Tolerance; Dependence; $GABA_B$ receptor; Hippocampus; CA3 pyramidal neuron; Intracellular electrophysiological recording (Frye, G.D. (735) 239)

CA1 neuron
Culture; Glutamate; Hypoxia; Nitric oxide; Platelet activating factor; Postnatal; Rat (Ohmori, T. (743) 109)

CA3 pyramidal neuron
Metabotropic glutamate response; Hippocampus; Rat (Harata, N. (711) 223)

Tolerance; Dependence; $GABA_B$ receptor; Hippocampus; CA1 pyramidal neuron; Intracellular electrophysiological recording (Frye, G.D. (735) 239)

Cannabinoid
Receptor down-regulation; Tolerance; Adenylyl cyclase; CP 55,940; Mouse (Fan, F. (706) 13)

Substantia nigra; Striatonigral; Iontophoresis; Local drug delivery; 2-Hydroxypropyl-β-cyclodextrin; γ-Aminobutyric acid inhibition (Tersigni, T.J. (733) 184)

Capillary electrophoresis
Aspartate; Laser-induced fluorescence detection; Dexfenfluramine; Frontal cortex; GABA; Glutamate; In vivo brain microdialysis; Serotonin (Rocher, C. (737) 221)

Capillary endothelium
Blood brain barrier; Transferrin receptor; Melanotransferrin; Human brain (Rothenberger, S. (712) 117)

Capsaicin
Prostaglandin; Bradykinin; Nifedipine; ω-Conotoxin; ω-Agatoxin; Release; Voltage-sensitive calcium channel (Evans, A.R. (712) 265)

Neurokinins; III group afferent; IV group afferent; Muscle ergoceptor; Muscle nociceptor; Dorsal root; Ventral root; Oculomotor nerve (Della Torre, G. (713) 223)

Analgesia; Allodynia; C-fiber; Cold; Hyperalgesia; Mechanical stimulation; Neuropathic pain; Spinal cord injury (Hao, J.-X. (722) 177)

Microneurography; Muscle afferent; Muscle pain; Referred pain (Marchettini, P. (740) 109)

Manual acupuncture; DNIC; Polymodal receptor; Rat; C fiber; Jaw opening reflex; Digastric EMG (Okada, K. (740) 201)

Nerve growth factor; Neuropeptide; Primary afferent fiber; Neuroregeneration; Rat (Donnerer, J. (741) 103)

Carbachol
t-ACPD; L(+)-2-amino-3-phosphonoproprionic acid; (+)-α-methyl-4-carboxyphenyl-glycine; Hyperpolarization; Depolarization (Erdemli, G. (723) 1)

Acetylcholine; Atropine; Circadian rhythm; Entrainment; Mecamylamine; Suprachiasmatic; Phase–response curve (Bina, K.G. (743) 202)

Carbamazepine
Anxiety; Basolateral nucleus; Epilepsy; Limbic system (Ebert, U. (733) 193)

Carbonic anhydrase
Calbindin-D28k; Calretinin; Trigeminal ganglion; Tooth pulp; Immunohistochemistry; Rat (Ichikawa, H. (715) 71)

Olfactory epithelium; Enzyme histochemistry; Guinea pig (Okamura, H. (728) 263)

Carbon monoxide
CA1; Gene expression; Heme; Hippocampus; Hypoxia; Ischemia; Ischemic tolerance; Neuronal death; Neuroprotection; Protein synthesis; Stroke (Gage, A.T. (719) 172)

Adrenal steroids; Glucocorticoids; Heme oxygenase; Neuronal development; Postnatal gene expression (Maines, M.D. (722) 83)

3-(2-Carboxypiperazine-4-yl)propyl-1-phosphonic acid
N-Methyl-D-aspartate; Kindling; Caudate-putamen; Amygdala; Substantia nigra; Thalamus; Cerebral cortex (Osonoe, M. (728) 242)

Cardiac rate
Atrioventricular conduction; Glutamate; Immunocytochemistry; Histochemistry; Nucleus ambiguus; Retrograde transport; Tachykinin; Vagus nerve (Massari, V.J. (715) 197)

Cardiopulmonary receptor
C-fiber; Amino acid receptor; Phosphonovaleric acid; Bradycardia; Sympatho-inhibition (Chianca Jr., D.A. (718) 185)

Cardiopulmonary sympathetic afferent
Spinothalamic tract neuron; Spinal transection; Inhibition; Nociception; Vagus nerve (Zhang, J. (709) 337)

Cardiovascular
Immediate early gene; c-*fos*; Anatomy; Nociception (Allen, G.V. (715) 125)

Labyrinth; Blood pressure; Sympathetic nervous system; Reticular formation (Steinbacher Jr., B.C. (720) 204)

Corticotropin-releasing factor; Hydralazine; Spontaneously hypertensive rat; Wistar–Kyoto rat (Youngblood, K. (734) 175)

Vagal; Heart; A current; Tetrodotoxin; 4-Aminopyridine (Mihalevich, M. (739) 258)

Galanin; Galanin receptor; Baroreceptor reflex; Blood pressure; Neuropeptide; Brain; Galanin-(1-15) (Díaz, Z. (741) 32)

Cardiovascular parameter
Neuropeptide FF; Receptor; Nucleus tractus solitarius; Baroreceptor reflex (Laguzzi, R. (711) 193)

Cardiovascular regulation
Circumventricular organ; Body fluid homeostasis; Plasma osmolality (Rosas-Arellano, M.P. (706) 323)

Body fluid homeostasis; Hypothalamus; Circumventricular organ (Rosas-Arellano, M.P. (707) 308)

Subfornical organ; Organum vasculosum laminae of the terminalis; Median preoptic nuceus; Body fluid homeostasis (Ciriello, J. (708) 167)

γ-Aminobutyric acid; Rostro-ventrolateral medulla; Brainstem slice; Intracellular recording; Baroreflex; Pacemaker neuron (Hayar, A. (709) 173)

Paraventricular nucleus of the hypothalamus; Supraoptic nucleus; Nucleus of the solitary tract; Subfornical organ; Anteroventral third ventricle; Organum vasculosum of the laminae terminalis (Hochstenbach, S.L. (713) 17)

Ca^{2+} release
Ethanol; Ca^{2+} store; Protein kinase C; Cytoskeleton (Mironov, S.L. (714) 27)

Ca^{2+} current; Ca^{2+} influx; Mercury; Microsome; Ca^{2+} ATPase; Methylmercury; Glutathione (Freitas, A.J. (738) 257)

Carotid body
Cytosolic calcium ($[Ca^{2+}]_i$); Glomus cell; Pheochromocytoma 12 cell; Vascular smooth muscle cell (A7r5); Hypoxia (Bright, G.R. (706) 297)

Ca^{2+}-store depletion; Hypoxic response; O_2 consumption; Thapsigargin (Lahiri, S. (709) 141)

Glomus cell; Intercellular coupling; Calcium; A23187; BAPTA/AM; Dimethylsulfoxide (Abudara, V. (725) 125)

Type I cell; Chronic hypoxia; Ca^{2+} channel; Nifedipine; ω-Conotoxin GVIA (Peers, C. (739) 251)

Carotid labyrinth
Peptidergic innervation; Coexistence; Double labelling immunofluorescence; Multiple dye filter (Kusakabe, T. (735) 307)

Carotid ligation
Ischemia; Memory; CA1; Alzheimer's disease (Pappas, B.A. (708) 50)

Carrageenan
COX-2 inhibitor; Inflammation; Nociception; Spinal cord; Rat (Buritova, J. (715) 217)

Carrageenin
Antinociception; c-Fos; Spinal cord; Morphine; μ-Opioid receptor; β-Funaltrexamine (Honoré, P. (732) 242)

Carrier-mediated
Nucleoside; Thymidine; Perfused brain; Blood–brain barrier; Blood–cerebrospinal fluid barrier; Transport (Thomas née Williams, S.A. (741) 230)

Ca^{2+} store
Ethanol; Ca^{2+} release; Protein kinase C; Cytoskeleton (Mironov, S.L. (714) 27)

Ca^{2+}-store depletion
Carotid body; Hypoxic response; O_2 consumption; Thapsigargin (Lahiri, S. (709) 141)

Castration
Paraventricular nucleus; Oxytocin cell; Dorsal penile nerve; Electrical stimulation; Tactile stimulation; Rat (Yanagimoto, M. (733) 292)

Cat
Respiratory neuron; Excitatory amino acid; Glycine; GABA; Strychnine; Bicuculline (Schmid, K. (710) 150)

Glutamate; AMPA-selective; Receptor; Retina; Immunocytochemistry (Qin, P. (710) 303)

Reticular formation; Subnucleus reticularis dorsalis; Subnucleus reticularis ventralis; Nociception; Medulla oblongata (Fujino, Y. (715) 225)

Tooth pulp; Nociceptive neuron; Subnucleus caudalis; Reticular formation; Medulla oblongata (Yokota, T. (715) 230)

Predatory attack behavior; Medial amygdala; Stria terminalis; Substance P; Substance P (NK_1) receptor antagonist CP96,345; Hypothalamus (Han, Y. (716) 59)

Predatory attack behavior; Medial amygdala; Hypothalamus; GABA; $GABA_A$ receptor; Muscimol; Bicuculline (Han, Y. (716) 72)

Serotonin; Dorsal raphe nucleus; Single unit activity; Motor activity; Feeding; Grooming; Central pattern generator (Fornal, C.A. (716) 123)

Succinate dehydrogenase activity; Soma size; Dorsal root ganglion; Rat (Ishihara, A. (716) 183)

Area 21a; Spatial frequency; Temporal frequency; Contrast sensitivity; Extrastriate cortex; Vision (Tardif, E. (716) 219)

Active sleep; Masseter motoneuron; Microiontophoresis; α-Chloralose (Kohlmeier, K.A. (722) 30)

Lateral geniculate nucleus; Intergeniculate leaflet; Geniculohypothalamic tract; Suprachiasmatic nucleus; Circadian rhythm; Neuropeptide Y (Pu, M. (725) 247)

Sensorimotor cortex; Bursting; Intracellular staining; Afterdepolarization (Nishimura, Y. (727) 212)

Visual cortex; NMDA receptor; Visual deprivation; Contrast–response curve; Synapse elimination (Czepita, D. (728) 7)

Visual cortex; Oscillation; Vision (Molotchnikoff, S. (731) 91)

Spinal cord; α-Motoneuron; Axonal lesion; Retrograde reaction; Ventral root avulsion (Holmberg, P. (731) 155)

Otolith; Medial medullary reticular neuron; Off-vertical axis rotation; Bidirectional response sensitivity; Spatial property; Response dynamic (Chan, Y.S. (732) 159)

Sleep deprivation; c-*fos*; Preoptic area; Stress; Sleep (Ledoux, L. (735) 108)

8-OH-DPAT; Ipsapirone; BMY 7378; Spiperone; Electroencephalography; Rhythmic slow activity; Serotonergic neuronal activity; REM sleep (Marrosu, F. (739) 192)

Thalamus; Parkinson; Electrophysiology; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) (Schneider, J.S. (742) 25)

Catabolism
Tripeptide reduced glutathione; Astrocyte; Ischemia; ATP; Cysteine; Glutamate; Neurotoxicity; Sodium-potassium ATPase (Juurlink, B.H.J. (710) 229)

Catalepsy
Phencyclidine; Nitric oxide; N^{ω}-Nitro-L-arginine methyl ester; 7-Nitroindazole; Discriminative stimulus; Drug discrimination; Operant behavior (Jewett, D.C. (715) 25)

Cataplexy
Narcolepsy; Dopaminergic system; Ventral tegmental area (Reid, M.S. (733) 83)

Catecholamine
Neonate; Blood pressure; Immediate-early response gene; Functional activity; Gene induction; Autonomic nervous system (Ruggiero, D.A. (706) 199)

Cocaine; Tyrosine hydroxylase; Development; Cortex (Wang, X.-H. (715) 221)

Pituitary adenylate cyclase activating polypeptide; Chromaffin cell; Dorsal root ganglia; Nodose ganglia (Dun, N.J. (716) 11)

Parkinson's disease; Dyskinesia; Dopamine receptor; MPTP; Tolerance; Monkey (Goulet, M. (719) 129)

3,4-Dihydroxyphenylglycolaldehyde; Neurotoxin; MAO-A metabolite; PC-12 cell (Burke, W.J. (722) 232)

NADPH-diaphorase; Nitric oxide; Amphibian; Evolution (González, A. (727) 49)

Hypoxia; Heat shock protein; Newborn; Brain (Murphy, S.J. (727) 145)

In situ hybridization; Locus coeruleus; Ventral tegmental area; Tyrosine hydroxylase; Transporter (Figlewicz, D.P. (736) 54)

Diabetes; Rat; Brain; Epinephrine; α-Methyl DOPA; α-Methyl norepinephrine (Gbadebo, T.D. (739) 210)

Patch-clamp analysis; Acetylcholine receptor; Channel block; Neuromuscular transmission (Milone, M. (740) 346)

Catecholamine metabolism
L-DOPA; D-DOPA; Dihydroxyphenylpyruvic acid; Parkinson's disease; Cerebral microdialysis (Brannan, T. (718) 165)

Catecholaminergic nuclei
Hypoxia; Nucleus tractus solitarius; Chemoreceptor pathway; Baroreceptor pathway; Tyrosine hydroxylase; Quantitative radioimmunohistochemistry (Pépin, J.L. (733) 1)

Catecholamine secretion
Na channel; Up-regulation; Cyclic adenosine monophosphate (cyclic AMP)-dependent protein kinase; [^{3}H]Saxitoxin binding; ^{22}Na influx; ^{45}Ca influx; Adrenal medulla (Yuhi, T. (709) 37)

Catechol-*O*-methyltransferase
Aromatic L-amino acid decarboxylase; DOPA; Dental pulp; Human (Nomura, T. (735) 314)

Cation channel
Neuronatin; Chromosome 20; Development; Proteolipid protein; Brain; Phospholamban; PMP1; ATPase; Neural restrictive silencer element (Dou, D. (723) 8)

Cat sciatic nerve
Peripheral nerve regeneration; Polyglycolic acid-collagen tube; Horseradish peroxidase; Somatosensory evoked potential; Electromyogram; Intracellular recording from motoneuron; Reinnervation, misdirected (Kiyotani, T. (740) 66)

Caudalis
Spinal trigeminal nucleus; Interpolaris; c-Fos; Heart rate conditioning; Unconditioned stimulus; Cornea; Medial geniculate (McEchron, M.D. (710) 112)

Caudate
Putamen; Chloride channel; $GABA_A$ receptor (Caruncho, H.J. (722) 185)

Caudate nucleus
Dopamine D_2 receptor gene; Alcoholism; Naloxone; Opiate receptor; Frontal cortex (Ritchie, T. (718) 193)

C-fos; Immediate early genes; Dopamine; Putamen; Striosome; Primate (Asin, K.E. (719) 138)

Dopamine; Acetylcholine; Olfactory tubercle (Guevara, B.H. (733) 105)

Caudate-putamen
3-Nitropropionic acid; Amphetamine; Neurotoxicity; Dopamine (Bowyer, J.F. (712) 221)

Opioid receptor; Genetic control; Inbred mouse strain; Adenylyl cyclase; Dopamine D_1 receptor; Adenosine A_{2a} receptor; Striatonigral neuron; Striatopallidal neuron (Noble, F. (716) 107)

N-Methyl-D-aspartate; 3-(2-Carboxypiperazine-4-yl)propyl-1-phosphonic acid; Kindling; Amygdala; Substantia nigra; Thalamus; Cerebral cortex (Osonoe, M. (728) 242)

FOS immunoreactivity; Paraventricular nucleus; Supraoptic nucleus; Desensitization (Chang, S.L. (736) 227)

N-Methyl-D-aspartate; Oxygen tension; Brain temperature; Blood flow; Ventral hippocampus (Hara, S. (737) 339)

NMDA receptor; Stereotypy; Glutamate; Striatum (McPherson, R.J. (739) 19)

C57BL/6
Corticosteroid receptor; DBA/2; Hippocampus; LY 171555; Passive avoidance; SKF 38393; SCH 23390; (−)-Sulpiride (Cabib, S. (729) 110)

C57BL/6 mouse
Parkinsonism; Bromocriptine; L-DOPA; MPTP (Fukuda, T. (728) 274)

C57Bl/6 mouse
Poly(ADP-ribose) polymerase; Benzamide; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Striatal dopamine; Cortical noradrenaline (Cosi, C. (729) 264)

C57Bl/6N mouse
Poly(ADP-ribose) polymerase; Benzamide; Methamphetamine; Neurotoxicity; Neuroprotection; Striatal dopamine (Cosi, C. (735) 343)

C6 cell
Trinucleotide repeat; Cyclic AMP regulated sequence; E-box; PC12 cell; L6 cell (Song, W. (721) 204)

Regulation of glycolysis; Synaptosome; Energy production; Hexokinase (Erecińska, M. (726) 153)

CCK-8
Whole-cell patch-clamp; Voltage-gated calcium current; U50488H; L365,260 (Xu, T. (730) 207)

CCK_B-R
VMH; Receptor autoradiography; Estrogen; Testosterone; Sex difference (Popper, P. (712) 335)

CD31
Brain endothelium; Cell adhesion molecule; Primary culture (Wong, D. (731) 217)

[^{14}C]2-Deoxyglucose
Audiogenic rat; Seizure; Kindling; Cerebral glucose utilization; Interictal metabolic level (Nehlig, A. (724) 97)

CD-1 mouse
MPTP; MPP^+; Striatal dopamine; Gender; Neurotoxicity (Freyaldenhoven, T.E. (735) 232)

L-[β-^{11}C]DOPA
Positron emission tomography; Tetrahydrobiopterin; Dopamine; L-Tyrosine; Monkey brain (Tsukada, H. (713) 92)

Cell adhesion molecule
Brain endothelium; CD31; Primary culture (Wong, D. (731) 217)

Cell body
Dopamine exocytosis; Inter-spike interval; Bursting pattern; Burst; Distribution; Giant dopamine neuron; *Planorbis corneus* (Chen, G. (733) 119)

Cell culture
Suprachiasmatic nucleus; Gap junction; Neuron; Astrocyte; Circadian rhythm (Welsh, D.K. (706) 30)

β-Endorphin; Hypothalamus; Adenylyl cyclase; Ascorbic acid (Yang, Z. (706) 243)

Anesthetic; Identified neuron; FMRFamide; *Lymnaea stagnalis*; Synaptic transmission (Spencer, G.E. (714) 38)

Angiotensin; Calcium current; Retina; Retinal ganglion cells; Neuromodulation (Guenther, E. (718) 112)

Growth factor; Protein kinase C activator; Protein kinase C inhibitor; Cellular proliferation; Psychosine (Yamada, H. (718) 138)

Dopamine neuron; Basic fibroblast growth factor; Neurotrophic factor; Glia; Mesencephalon (Hou, J.-G.G. (724) 145)

Melanocortin; Corticospinal tract; Cortex; Neuron polarity; Axon; Dendrite; Trophic factor (Joosten, E.A.J. (736) 91)

Fetal alcohol syndrome; Neurotrophin; Nerve growth factor receptor; PC12; Nerve growth factor binding study; Immunoprecipitation; Northern blot analysis (Luo, J. (737) 34)

IMR-32; Neurofilament; SMI31; Oxidative stress; Ascorbate (Cookson, M.R. (738) 162)

Cell cycle
Cyclin; Cyclin-dependent kinase; Plasticity; Tau protein; Development (Matsushita, M. (734) 319)

Cell death
Amyloid β peptide; c-Fos transcription factor; Antisense oligodeoxynucleotides; Hippocampal cell line; Immunocytochemistry (Gillardon, F. (706) 169)

Choline acetyltransferase; Facial nucleus; Motoneuron; Neuron survival; Regeneration (Gilad, V.H. (724) 141)

Pilocarpine; Status epilepticus; Seizure; Time course; *N*-Methyl-D-aspartate receptor; Glutamate (Fujikawa, D.G. (725) 11)

Closed head injury; Head trauma; Apoptosis; Ca/Mg-dependent endonuclease; Nucleus; DNA fragmentation (Pravdenkova, S.V. (729) 151)

Neurotoxicity; Hippocampus; Glutamate; Uptake; NMDA; Na^+; Ca^{2+} (Takahashi, M. (735) 1)

Spinal nucleus of the bulbocavernosus; Androgen; Gerbil (Forger, N.G. (735) 119)

Heat shock protein; Calcium; Na^+–Ca^{2+} exchanger; Glia (astrocyte) (Takuma, K. (735) 265)

Haloperidol; *bcl-2*; Oxidative stress; Neuroleptic drug; HT22 cell (Lezoualc'h, F. (738) 176)

Cortical impact; Hippocampus; Spatial memory (Colicos, M.A. (739) 111)

Cell differentiation
Prostanoid receptor; Astrocyte; Oligodendrocyte; Microglia; Reverse transcriptase-polymerase chain reaction; Messenger RNA expression (Kitanaka, J. (707) 282)

Cell distribution
Retina; Proliferation; Rod progenitor; Teleost (Kwan, J.W. (712) 40)

Cell division
Endogenous opioid system; μ-Opioid receptor; Neural development; Intracellular calcium; Dantrolene; Nifedipine; Thapsigargin; Fura-2 (Hauser, K.F. (720) 191)

Opioid receptor; Central nervous system maturation; Neuroglia; Drug abuse; Endogenous opioid system; U69593; U50488H; *Nor*-binaltorphimine; Fura-2; Intracellular calcium; Nifedipine; Thapsigargin (Gurwell, J.A. (737) 175)

Endogenous opioid system; PL017; μ Opioid receptor immunocytochemistry; Neural development; Drug abuse (Knapp, P.E. (743) 341)

Cell injury
Neuronal injury; Status epilepticus; Glutamate; Excitotoxicity; Heat shock protein (Tanaka, K. (737) 59)

Cell line
Differentiation; Dopamine; Glial cell; Neurotropic factor (Heller, A. (725) 132)

Cell polarity
Choroid plexus; Microvillus; Ezrin; Spaceflight; Gravity; Electron microscopy; Immunocytochemistry (Gabrion, J. (734) 301)

Cell shape
Rat embryo; Whole embryo culture; Nestin; Neural tube; Neuroepithelial cell; Neurogenesis (Matsuda, M. (723) 177)

Cell size
Calcium channel; Dorsal root ganglia; Frog (Holohean, A.M. (711) 138)

Adriamycin; Doxorubicin; Motoneuron; Aging; Neurotoxicity; Equivalent cylinder; Intracellular recording (Liu, R.-H. (738) 121)

Cell swelling
Hypoxia; Osmolality; Hippocampal slice; CGS-19755; NMDA receptor (Payne, R.S. (723) 210)

Cell type-specific enzyme
Aggregating brain cell culture; Developmental neurotoxicity; Mercury chloride; Monomethylmercury chloride; Microglia; Glial fibrillary acidic protein (Monnet-Tschudi, F. (741) 52)

Cellular proliferation
Cell culture; Growth factor; Protein kinase C activator; Protein kinase C inhibitor; Psychosine (Yamada, H. (718) 138)

Cellular swelling
Synaptic stripping; Microglia; Immunoreactivity; B-50/GAP-43; Side effect (Ulenkate, H.J.L.M. (717) 29)

Central administration
Prolactin; Rat; Female; Ovariectomy; Food intake; Hyperphagia; Food restriction (Sauvé, D. (729) 75)

Central amygdala
Fos; Cold; CRF; Dorsal motor nucleus of the vagus; Raphe pallidus; Gastric erosion; Nucleus tractus solitarius; Paraventricular nucleus of the hypothalamus (Wang, L. (736) 44)

Central amygdaloid nucleus
Tyrosine hydroxylase; Transient catecholaminergic neuron; Bed nucleus of stria terminalis; Immunohistochemistry; Wallerian degeneration (Beltramino, C.A. (706) 37)

Central canal
Spinal cord; Perivascular space; Cerebrospinal fluid; Horseradish peroxidase; Syringomyelia (Stoodley, M.A. (707) 155)

Central cardiovascular regulation
Noradrenergic A_2 cell group; Adrenergic C_2 cell group; Dorsal vagal complex; Angiotensin II; Circumventricular organ; Baroreceptor reflex (Ciriello, J. (726) 227)

Neurophypophysis; Paraventricular nucleus of the hypothalamus; Aortic depressor nerve; Fluid balance; Hypertension (Ciriello, J. (739) 52)

Central depression
Brain nitric oxide synthase; 7-Nitro indazole; Nitric oxide; Nitric oxide inhibitor; Sleep; Rat (Dzoljic, M.R. (718) 145)

Central hyperalgesia
Pain; Calmodulin inhibitor; Spinal analgesia; Formalin test; Tail flick test; Rotarod test; Rat (Menendez, L. (731) 114)

Central nervous system
Hippocampal cholinergic neurostimulating peptide; HCNP localization; Immunohistochemistry; Neuron; Oligodendroglia (Mitake, S. (706) 57)

Nitric oxide synthase; Nitric oxide; Circadian rhythm; Sleep; Hypothalamus; Protein level; Rat (Ayers, N.A. (707) 127)

Androgen; Progestagen; 5α-Reductase; Glial fibrillary acidic protein; Astrocyte; Rat (Melcangi, R.C. (711) 10)

Serotonin; Blood pressure; Anteroventral third ventricle (AV3V) lesion (Muntzel, M.S. (714) 104)

Hypothalamus; Gut; Peripheral organ; Truncal vagotomy; Feeding; Glycoprivation; Glucose utilization (Morita, H. (719) 112)

Human; Myelin; Neurite outgrowth inhibition (Ng, W.P. (720) 17)

NOS; Identified neuron; Leech; *Hirudo medicinalis*; Annelid; Invertebrate (Leake, L.D. (723) 115)

Cyclin-dependent kinase; Immunohistochemistry; Purkinje cell; Trigeminal ganglia; Nuclear protein; Peripheral nervous system (Ino, H. (732) 179)

Interleukin-1β; Hyperalgesia; Diclofenac; α-Melanocyte-stimulating hormone; Prostaglandin; Cytokine (Oka, T. (736) 237)

Central nervous system maturation
Opioid receptor; Cell division; Neuroglia; Drug abuse; Endogenous opioid system; U69593; U50488H; *Nor*-binaltorphimine; Fura-2; Intracellular calcium; Nifedipine; Thapsigargin (Gurwell, J.A. (737) 175)

Central nervous system neuron
Ethanol; Fura-2; Glutamate receptor; Neuronal development; Intracellular calcium; Fetal alcohol syndrome (Gruol, D.L. (728) 166)

Central nucleus
Amygdala; Basolateral nucleus; Ibotenic acid; Reward reduction; Behavioral contrast; Frustration effect; Crespi effect (Salinas, J.A. (742) 283)

Central pain
Allodynia; α_2-Adrenoceptor agonist; Clonidine; Intrathecal; Neuropathic pain; Sedation; Spinal cord (Hao, J.-X. (736) 28)

Central pattern generator
Chewing rhythm; Food texture; Jaw movement; Masticatory EMG; Head posture; Freely moving rabbit (Yamada, Y. (706) 237)

Serotonin; Dorsal raphe nucleus; Single unit activity; Cat; Motor activity; Feeding; Grooming (Fornal, C.A. (716) 123)

Central sensitization
Reflex facilitation; Hyperalgesia; Wind-up; Arthritis; Pain (Herrero, J.F. (717) 62)

Pain; Peripheral neurectomy; Autotomy; Bupivacaine; Cingulum bundle (Magnusson, J.E. (723) 214)

Ceramide
Laminin; Axon; Growth cone; Lipoxygenase; Lysophosphatidic acid; Protein kinase C (Smalheiser, N.R. (721) 39)

Cerebellar granule cell
Polyamine amide toxin; Excitotoxicity; Neuroprotection; Excitatory amino acid receptor (Green, A.C. (717) 135)

Nitric oxide; cGMP; Protein kinase C; Glutamate; *N*-Methyl-D-aspartate (Riccio, A. (718) 159)

Cerebellar granule neuron
$GABA_A$; Neurotransmitter receptor subtype; Development; Innervation (Ueno, S. (714) 49)

Cerebellum
Human motor control; Movement disorder; Force control; Movement speed; Ataxia; Arm movement (Wild, B. (713) 186)

Neuronal plasticity; GAP-43; Quantitative immunohistochemistry; Aging; Hippocampus; Olfactory bulb; Cingulate cortex (Casoli, T. (714) 111)

Benzodiazepine receptor; Inverse agonist; Rat; RU 34347; γ-Aminobutyric acid; Flumazenil (Pringle, A.K. (715) 155)

Nitric oxide; Mercury poisoning; Purkinje cell (Himi, T. (718) 189)

NMDA; Flow cytometry; MK-801; Granule cell; Oxidative stress; Calcium; Indo-1 (Sureda, F.X. (723) 110)

AMPA; Cyclothiazide; Edema; Purkinje cell; Non-NMDA; Desensitization (Strahlendorf, J.C. (729) 197)

Slice; Fluorescence; Microscopy; Phospholipid (Schreurs, B.G. (730) 125)

Brainstem; Cerebral cortex; Fetal alcohol syndrome; Hippocampus; Microencephaly (Miller, M.W. (734) 286)

Ibogaine; Purkinje cell; Neurotoxicity; Zebrin; Glial fibrillary acidic protein; Fink-Heimer stain (Molinari, H.H. (737) 255)

Spatial orientation; Motor coordination; Visual discrimination learning; Fastigial nucleus; Sensorimotor learning (Joyal, C.C. (739) 1)

Cerebral blood flow
Nitric oxide; Parasympathetic nerve (Goadsby, P.J. (707) 110)

Parallel fiber; Glutamate; Nitric oxide; Metabolic regulation; Laser-Doppler flowmetry; Synaptic activity (Akgören, N. (710) 204)

Cerebral ischaemia; Excitotoxicity; Glutamate; κ-Opioid agonist; Microdialysis; Neuroprotection (MacKay, K.B. (712) 329)

Endothelin; Nitric oxide; Cerebral ischemia; $Endothelin_A$ receptor (Spatz, M. (726) 242)

CGS-19755; *N*-Methyl-D-aspartate; Cerebral O_2 consumption; Rat (Weiss, H.R. (730) 193)

Cerebral ischemia; Reperfusion; Adenosine; Pig (Gidday, J.M. (734) 261)

Propentofylline; Glucose utilization; Adenosine (Grome, J.J. (740) 41)

Human brain monitoring; Extracellular K^+; NADH redox state; Cortical spreading depression; Intracranial pressure; Multiparametric monitoring; Head trauma (Mayevsky, A. (740) 268)

Cerebral blood vessel
Aging; Transplantation; Sympathetic; Sensory; Extracellular matrix; Autonomic (Gavazzi, I. (734) 167)

Cerebral cortex
Aromatic L-amino acid decarboxylase; Serotonergic neuron; L-Dopa; Dopamine; Raphe nucleus; Striatum; Parkinson's disease (Arai, R. (706) 177)

Brain damage; Pathogenesis; Benzodiazepine; Hepatic encephalopathy; Human (Dodd, P.R. (710) 215)

Extracellular matrix; Lectin binding; Basal forebrain; Reticular thalamic nucleus; Red nucleus; Rat (Brückner, G. (720) 84)

Transgenic insertion mutation; Neuronal migration; Cortical ectopia; Mouse; *Perinatal lethality*; Microgyria; Dysgenesis (Beier, D.R. (727) 196)

Fos; Dopamine; Reserpine; D1/D2 synergism; Cortical layer; Basal ganglia; Immediate-early gene (LaHoste, G.J. (728) 97)

Epilepsy; Kindling; Neuropsin gene; Serine protease; Plasticity; Limbic system (Okabe, A. (728) 116)

N-Methyl-D-aspartate; 3-(2-Carboxypiperazine-4-yl)propyl-1-phosphonic acid; Kindling; Caudate-putamen; Amygdala; Substantia nigra; Thalamus (Osonoe, M. (728) 242)

Cytochrome P45011B1; In situ hybridization; Neurosteroid; Transgenic rat; Hypertension (Erdmann, B. (733) 73)

Brainstem; Cerebellum; Fetal alcohol syndrome; Hippocampus; Microencephaly (Miller, M.W. (734) 286)

Immunohistochemistry; Nuclear factor-κB; Alzheimer's disease; Human brain; Neuron; Hippocampal formation (Terai, K. (735) 159)

α_2-Macroglobulin; α_2-Macroglobulin receptor; Neurite-promoting factor; Neuron (Ishii, M. (737) 269)

5-Hydroxytryptamine uptake; Calcium ion; Protein kinase; Calmodulin; Transporter (Yura, A. (738) 96)

Cerebral glucose metabolism
Cortical contusion; Traumatic brain injury; Hippocampal CA3 region (Queen, S.A. (724) 246)

FR115427; MK801; CGS19755; NMDA receptor (Sharkey, J. (735) 67)

Cerebral glucose utilization
Audiogenic rat; Seizure; Kindling; [^{14}C]2-Deoxyglucose; Interictal metabolic level (Nehlig, A. (724) 97)

Cerebral infarction
Cerebral ischemia; Microglia; Leukocyte; Immunohistochemistry; Inflammation; Rat (Kato, H. (734) 203)

Cerebral injury
Postischemic hypothermia; Transient focal ischemia; Rat neocortex (Yanamoto, H. (718) 207)

Cerebral ischaemia
Cerebral blood flow; Excitotoxicity; Glutamate; κ-Opioid agonist; Microdialysis; Neuroprotection (MacKay, K.B. (712) 329)

Hippocampus; Synapse density; Chick; Disector (Horner, C.H. (735) 354)

Cerebral ischemia
Spatial cognition; 8-Arm radial maze task; Microdialysis; Glutamate; Noradrenaline; Acetylcholine (Iwasaki, K. (709) 163)

Middle cerebral artery occlusion; Microdialysis; Excitatory amino acids; Taurine; Rat (Herz, R.C.G. (715) 163)

Gerbil; Ischemic tolerance; HSP70; Microtubule-associated protein 2; Inclined plane (Kitagawa, K. (716) 39)

Neuronal death; Hippocampus; Learning; Memory; LY231617; Angiotensin IV; Circular water maze; Passive avoidance conditioning; Rat (Wright, J.W. (717) 1)

Nerve growth factor; Clenbuterol; Hippocampal culture; Excitotoxicity; Glutamate; Protection (Semkova, I. (717) 44)

Reperfusion; Brain; Oxidative stress; Glutathione; α-Lipoic acid (Panigrahi, M. (717) 184)

Middle cerebral artery occlusion; Propentofylline; Rat; Striatum (Matsumoto, K. (723) 228)

Hyperglycemia; Energy metabolism; Intracellular pH; Postischemic alkalinization (Katsura, K.-i. (726) 57)

Endothelin; Nitric oxide; Cerebral blood flow; $Endothelin_A$ receptor (Spatz, M. (726) 242)

Stroke; Excitotoxic amino acid; Glutamate; Phospholipase; Protein kinase (Phillis, J.W. (730) 150)

Nitric oxide; Microdialysis, in vivo; Nitrite; Griess reaction; Striatum (Shibata, M. (734) 86)

Cerebral infarction; Microglia; Leukocyte; Immunohistochemistry; Inflammation; Rat (Kato, H. (734) 203)

Cerebral blood flow; Reperfusion; Adenosine; Pig (Gidday, J.M. (734) 261)

Progesterone; Neuronal damage; Rat (Jiang, N. (735) 101)

Cyclooxygenase-2; Hippocampus (Ohtsuki, T. (736) 353)

Microsphere embolism; Synaptosome; Calcium ion influx; Noradrenaline release; Noradrenaline uptake; Rat (Hayashi, H. (737) 64)

Vascular reserve capacity; Autoradiography; Acetazolamide; Three vessel occlusion; Rat (Kawata, Y. (739) 330)

Behavior; Glutamate; Dextromethorphan; Rat (Block, F. (741) 153)

Hypoxia; Neuroprotection; Dexamethasone; Glucocorticoid; RU38486; Corticosterone; Infant (Tuor, U.I. (743) 258)

Cerebral ischemia-reperfusion
Platelet-activating factor; Thromboxane; Free radical; Ascorbyl radical; Electron spin resonance (Matsuo, Y. (709) 296)

Cerebral laterality
Antidepressant drug; Biogenic amine; Medial prefrontal cortex; Nucleus accumbens; Striatum (Carlson, J.N. (707) 122)

Cerebral microcirculation
FITC-dextran; Cerebral venules; Hoe-140; Vascular permeability; Brain; Rat (Mayhan, W.G. (738) 337)

Cerebral microdialysis
L-DOPA; D-DOPA; Dihydroxyphenylpyruvic acid; Parkinson's disease; Catecholamine metabolism (Brannan, T. (718) 165)

Cerebral O_2 consumption
CGS-19755; *N*-Methyl-D-aspartate; Cerebral blood flow; Rat (Weiss, H.R. (730) 193)

Cerebral oxygenation
Apnea; Newborn; Hypoxia; Phosphorescence (Tammela, O.K.T. (741) 160)

Cerebral palsy
Rota-Rod treadmill; Sensorimotor; Perinatal neural injury; Rat; Brain hypertrophy; Contralateral hemisphere hypertrophy (Jansen, E.M. (708) 93)

Cerebral ventricle
Brainstem; Taste; Appetite; Palatability; Food intake; Feeding; Benzodiazepine; Hyperphagia; Diazepam; Hindbrain; Anxiolytic (Peciña, S. (727) 22)

Cerebral venule
FITC-dextran; Pial arteriole; Nitric oxide; L-NMMA; Brain; Rat (Mayhan, W.G. (743) 70)

Cerebral venules
FITC-dextran; Cerebral microcirculation; Hoe-140; Vascular permeability; Brain; Rat (Mayhan, W.G. (738) 337)

Cerebrocortical synaptosome
Lipid peroxidation; Intracellular calcium; Calcium uptake; Calcium-dependent ATPase (Pereira, C. (713) 269)

Cerebrolysin
Brain slice; Hippocampus; CA1; $GABA_B$; Receptor; Synaptic transmission; Presynaptic (Xiong, H. (737) 188)

Cerebrospinal fluid
Human brain; Vasopressin binding sites; Linear $V1_a$-antagonist choroid plexus; Alzheimer's disease (Korting, C. (706) 151)

Spinal cord; Central canal; Perivascular space; Horseradish peroxidase; Syringomyelia (Stoodley, M.A. (707) 155)

Dog; Serotonin; 5-HIAA; Aggression; Dominance (Reisner, I.R. (714) 57)

Cerebrovascular diseases
Hippocampal slice; Hemoglobin; *N*ω-Nitro-L-arginine; Synaptic transmission; CA1 pyramidal neuron; Stroke; Head injury (Yip, S. (713) 134)

Cerebrovascular type dementia
Chronic hypoperfusion; Ligation of bilateral common carotid artery; Muscarinic acetylcholine receptor; Incomplete ischemia; Wistar rat; Rarefaction; Discrimination learning (Tanaka, K.-i. (729) 55)

Ceruloplasmin
Acute phase protein; Alzheimer's disease; Copper; Huntington's disease; Parkinson's disease; Progressive supranuclear palsy (Loeffler, D.A. (738) 265)

Cervical interneuron
c-*fos*; Corticospinal tract; Sensorimotor cortex; Kainate; Rat (Curfs, M.H.J.M. (725) 88)

Cervix
Vagus nerve; Spinal cord; Vagina; Vaginocervical stimulation; Analgesia; Pupil dilatation (Komisaruk, B.R. (708) 128)

Cesium
Depolarizing postsynaptic potential; Dopamine; 4-Aminopyridine; Tetraethylammonium (Altemus, K.L. (718) 212)

C-fiber
Locus coeruleus; Nociception; Noradrenaline; Morphine; Naloxone (Hirata, H. (714) 9)

Cardiopulmonary receptor; Amino acid receptor; Phosphonovaleric acid; Bradycardia; Sympatho-inhibition (Chianca Jr., D.A. (718) 185)

Analgesia; Allodynia; Capsaicin; Cold; Hyperalgesia; Mechanical stimulation; Neuropathic pain; Spinal cord injury (Hao, J.-X. (722) 177)

ω-Conotoxin GVIA; Voltage-sensitive calcium channel; Human sural nerve (Quasthoff, S. (723) 29)

Manual acupuncture; Capsaicin; DNIC; Polymodal receptor; Rat; Jaw opening reflex; Digastric EMG (Okada, K. (740) 201)

c-*fos*
Interleukin-6 receptor; Gp 130; Reverse transcriptase–polymerase chain reaction; Hybridization, in situ; PC12 cell; Sympathetic neuron; Tumor necrosis factor α; Glucocorticoid; Differentiation (März, P. (706) 71)

Opioid peptide; Corticotropin-releasing factor; In situ hybridization; Hypothalamic–pituitary–adrenal axis (Wang, X.-Q. (707) 189)

Ureter; Electrical stimulation; Rat; Spinal cord; Afferent input (Matsumoto, G. (709) 197)

Uni- or bi- AV3V lesion; Vasopressin neuron; Oxytocin neuron; Dehydration; Angiotensin II (Xu, Z. (713) 36)

Immediate early gene; Anatomy; Nociception; Cardiovascular (Allen, G.V. (715) 125)

Olfactory system; Immediate-early gene; *N*-Methyl-D-aspartate; Mitral cell; Rat (Wilson, D.A. (719) 62)

Osmoreception; Circumventricular organ; Lamina terminalis; Organum vasculosum laminae terminalis (Bisley, J.W. (720) 25)

Electroconvulsive seizure; Electroconvulsive stimulation; Neuropeptide Y; Somatostatin; Dentate gyrus (Woldbye, D.P.D. (720) 111)

Olfactory system; 2-Deoxyglucose; Neuronal plasticity; Noradrenaline; Acetylcholine (Sallaz, M. (721) 66)

Visceral afferent; Spinal cord; Immediate early gene; Reno-renal reflex; Dorsal root ganglion; Albino rat; Kidney (Fitch, G.K. (723) 199)

Cervical interneuron; Corticospinal tract; Sensorimotor cortex; Kainate; Rat (Curfs, M.H.J.M. (725) 88)

Circadian rhythm; Suprachiasmatic nucleus; Photoperiod; Pineal; Melatonin; Rat (Sumová, A. (725) 281)

Auditory; Anaesthetic; Halothane; Anechoic; Guinea pig (Cody, A.R. (728) 72)

Atrial natriuretic peptide; Immediate–early gene; Drinking behavior; C-type natriuretic peptide; Angiotensin II (Zhu, B. (734) 55)

Sleep deprivation; Cat; Preoptic area; Stress; Sleep (Ledoux, L. (735) 108)

Sexual behavior; Gonadotrophin; Brainstem (Condé, G.L. (735) 197)

Suprachiasmatic nucleus; Circadian rhythm; *fosB*; Gene expression; Immediate-early gene; Light; Entrainment; Transcription regulation (Guido, M.E. (739) 132)

Sexual stimulation; Reproductive behavior; Estradiol; Progesterone (Pfaus, J.G. (741) 314)

Immobilization stress; Rat; Lactation; Pregnancy; Corticosterone; Paraventricular nucleus (Da Costa, A.P.C. (742) 177)

c-fos
Immediate early gene; c-jun; Krox-24; Vestibular nucleus; Vestibular compensation; Unilateral labyrinthectomy (Darlington, C.L. (735) 173)

C-fos
Immediate early genes; Dopamine; Caudate nucleus; Putamen; Striosome; Primate (Asin, K.E. (719) 138)

C-*fos* immunohistochemistry
Latent inhibition; Conditioned emotional response; Auditory system; Limbic system; Rat brain (Sotty, F. (737) 243)

c-*fos* oligonucleotide
Fos-like immunoreactivity; Nucleus tractus solitarius; Baroreceptor reflex; Rat (Shih, C.-D. (738) 39)

C6 glioma
Heat shock; Intracellular pH; Alkalosis; Monensin; HSP; Synthesis (Neuhaus-Steinmetz, U. (724) 16)

CGP 35348
Antinociception; Nucleus raphe magnus; Nucleus reticularis gigantocellularis pars α; $GABA_B$ receptor; GABA (Thomas, D.A. (718) 129)

CGP 37849
Epilepsy; CGP 39551; Excitatory amino acid antagonist; Tolerance; Anticonvulsant; Audiogenic seizure; Genetically epilepsy-prone rat (De Sarro, G. (734) 91)

CGP 39551
Epilepsy; CGP 37849; Excitatory amino acid antagonist; Tolerance; Anticonvulsant; Audiogenic seizure; Genetically epilepsy-prone rat (De Sarro, G. (734) 91)

CGP-42112A
Angiotensin receptor; Hypothalamus; Circumventricular organ; Subfornical organ; Adrenal gland; DUP-753; PD-123319; Domestic mallard; Drinking; Bird; Osmoregulation (Schäfer, F. (711) 118)

CGRP
Nerve injury; Plasticity; Sensory neuron; Somatostatin (Ji, R.-R. (721) 167)

CGS-19755
Hypoxia; Osmolality; Hippocampal slice; Cell swelling; NMDA receptor (Payne, R.S. (723) 210)

CGS19755
MK801; YM90K; Scopolamine; 8-Arm radial maze; Spatial cognitive deficit; Augmentation (Li, H.-B. (725) 268)

CGS-19755
N-Methyl-D-aspartate; Cerebral blood flow; Cerebral O_2 consumption; Rat (Weiss, H.R. (730) 193)

CGS 21680
Nucleus tractus solitarius; Adenosine receptor; Serotonin; Adenosine A_{2a} receptor; Receptor desensitization (Barraco, R.A. (733) 155)

CGS 8216
RO19-4603; Flumazenil; ZK 93426; Alcohol-preferring (P) rat; $GABA_A$–BDZ; Benzodiazepine inverse agonist (June, H.L. (734) 19)

CGS19755
Cerebral glucose metabolism; FR115427; MK801; NMDA receptor (Sharkey, J. (735) 67)

CHA
APEC; Adenosine; Amphetamine; c-Fos; Nucleus accumbens; Striatum (Turgeon, S.M. (707) 75)

Channel
Epilepsy; Intracellular calcium; Verapamil; Calcium antagonist; *Helix pomatia* (Wiemann, M. (734) 49)

Channel block
Neuromuscular transmission; Quinine; Quinidine; Chloroquine; Transmitter release; Acetylcholine receptor; Patch-clamp analysis (Sieb, J.P. (712) 179)

Patch-clamp analysis; Acetylcholine receptor; Catecholamine; Neuromuscular transmission (Milone, M. (740) 346)

Chaos
Somatosensory cortex; Anesthetized rat; Periodic medial lemniscus stimulation; Field potential; Phase-locking; One-dimensional strobomap; Strange attractor; Period doubling-bifurcation; Correlation dimension; Lyapunov exponent (Ishizuka, S. (723) 46)

Chelerythrine
Ventromedial hypothalamic nucleus; 2,3-Butanedione monoxime; Glycine; Chloride current; Protein kinase; Phosphorylation; Phorbol 12,13-dibutyrate (Ye, J.-H. (735) 20)

Chemical inhibition
NADH; Hippocampal slice; Oxidative phosphorylation; Uncoupling; Selective vulnerability; CA1; CA3 (Riepe, M.W. (710) 21)

Chemoreceptor
Glomus cell; Hypoxia; K current; Oxygen; Sheath cell (Chou, C.-L. (742) 34)

Chemoreceptor pathway
Hypoxia; Nucleus tractus solitarius; Catecholaminergic nuclei; Baroreceptor pathway; Tyrosine hydroxylase; Quantitative radioimmunohistochemistry (Pépin, J.L. (733) 1)

Chemoreflex
Alcohol; Excitatory amino acid; Rostral ventrolateral medulla; Vasomotor neuron; Rat (Sun, M.-K. (730) 182)

Hypoxia; Rat; Neuropeptide Y; Substance P; Radioimmunoassay (Poncet, L. (733) 64)

Chemosensory event-related potential
Olfaction; Desensitization; Adaptation; Habituation (Hummel, T. (717) 160)

Chemoshock
Protein kinase C γ; Neuromodulin; Hippocampus (Chen, C.-C. (725) 75)

Chemotopy
Taste; Fos immunohistochemistry; Nucleus of the solitary tract (Harrer, M.I. (711) 125)

Chewing rhythm
Food texture; Central pattern generator; Jaw movement; Masticatory EMG; Head posture; Freely moving rabbit (Yamada, Y. (706) 237)

Chick
Autoradiography; Dopamine receptor; Auditory imprinting; Postnatal development; Learning and memory (Schnabel, R. (720) 120)

Morphology; Learning; Plasticity; Electrophysiology (Bradley, P.M. (727) 125)

Nitric oxide synthase; Forebrain; Epilepsy; Hereditary; Seizure; Photic stimulation (Sandirasegarane, L. (735) 311)

Cerebral ischaemia; Hippocampus; Synapse density; Disector (Horner, C.H. (735) 354)

Chick central nervous system
Neuronal nicotinic receptor; Electrophysiology; Nicotine; Acetylcholine; Brain slice (Weaver, W.R. (725) 95)

Chicken
Hair cell; Regeneration; Drug resistance; Aminoglycoside; Ototoxicity (Hashino, E. (720) 172)

Chicken brain
Opioid binding; Quantitative autoradiography; Food restriction (Stewart, M.G. (742) 343)

Chick pineal
Calcium ion; Cyclic adenosine monophosphate; Circadian rhythm; Diurnal rhythm; Melatonin (Nikaido, S.S. (716) 1)

α-Chloralose
Neuronal nitric oxide synthase; 7-Nitroindazole; Trigeminal pathway; Autoradiography; [^{14}C]iodoantipyrine; Somatosensory activation (Cholet, N. (708) 197)

Active sleep; Masseter motoneuron; Microiontophoresis; Cat (Kohlmeier, K.A. (722) 30)

Chlordiazepoxide
Benzodiazepine; Flumazenil; Medial septum; Hippocampus; Dentate gyrus; Field potential; Synaptic plasticity; Long-term potentiation (Stackman, R.W. (717) 12)

Hippocampus; Lateral septum; Spatial memory; Lesion; Anxiety (Farber, H.T. (725) 257)

Chloride channel
Caudate; Putamen; $GABA_A$ receptor (Caruncho, H.J. (722) 185)

Chloride current
Ventromedial hypothalamic nucleus; 2,3-Butanedione monoxime; Glycine; Protein kinase; Phosphorylation; Phorbol 12,13-dibutyrate; Chelerythrine (Ye, J.-H. (735) 20)

GABA receptor subunit; Lindane; Hexachlorocyclohexane; HCH isomer; Insecticide; Human embryonic kidney cell (Nagata, K. (738) 131)

Chloride-sensitive indicator
MQAE; Receptor-mediated chloride flux; $GABA_A$ receptor; Glycine receptor; Neurotransmitter release (Engblom, A.C. (712) 74)

***p*-Chlorophenylalanine**
Hypothalamus; Neuropeptide Y; Serotonin (Dryden, S. (724) 232)

Tachykinin; Substance P; Opioid; Basal ganglia; 5-HT_2 receptor; 5-HT_{1A} receptor (Walker, P.D. (732) 25)

L-2-Chloropropionic acid
NMDA receptor; Rat cerebellum; Glutamate antagonist; Glycine antagonist; Neurotoxicity (Widdowson, P.S. (738) 236)

Chloroquine
Neuromuscular transmission; Quinine; Quinidine; Transmitter release; Acetylcholine receptor; Channel block; Patch-clamp analysis (Sieb, J.P. (712) 179)

Alzheimer's disease; β-Amyloid; Interleukin-1; Inflammation; Indomethacin; Dexamethasone (Fagarasan, M.O. (723) 231)

Cholecystokinin
Tyrosine hydroxylase; Ventral tegmental area; Drug addiction (Harris, H.W. (706) 1)

Serotonin; Anorectic agent; Paraventricular hypothalamus; Drug tolerance; Escalating dose regimen (Li, B.-H. (728) 188)

Gold thioglucose; Ventromedial nucleus; Food intake; Glucose; 2-Deoxyglucose (Bergen, H.T. (734) 332)

Dopamine; Microdialysis; Frontal cortex; *N*-Methyl-D-aspartate; Scopolamine; Release (Liu, J.K. (735) 30)

Hyperalgesia; Mustard oil; Neurotensin; Rostral ventromedial medulla; Descending pain facilitation (Urban, M.O. (737) 83)

Receptor subtype; Autoradiography; Neuroanatomy; Cortex; Monkey (Mercer, L.D. (738) 313)

Cholecystokinin receptor
Vagus nerve; Nucleus tractus solitarius; Ventromedial hypothalamic nucleus; Area postrema; Pancreas; Ovariectomy; Devazepide; L365,260; Food intake (Geary, N. (179) 179)

Cholera toxin B subunit
Piriform cortex; Dopamine; Dopamine β-hydroxylase; Tyrosine hydroxylase; Ventral tegmental area; Locus coeruleus (Datiche, F. (710) 69)

Cholera toxin-HRP
Motoneuron; Hypoglossal; Styloglossus; Hyoglossus; Tongue; Rat (Guo, Y. (728) 277)

Choline
Oxytocin; Muscarinic; Nicotinic; Hemicholinium-3; Osmotic stimulation; Hemorrhage (Savci, V. (709) 97)

Acetylcholine; Choline uptake; Phosphatidylcholine; Phosphocholine; Phospholipid; Choline acetyltransferase; Choline kinase; Rat striatum (Farber, S.A. (723) 90)

Choline acetyltransferase
Hemicholinium-3 binding; Muscarinic receptor; Tyrosine hydroxylase; Septum; Hippocampus; Developmental lead-exposure; Fimbria-fornix transection; Superior cervical ganglionectomy (Bielarczyk, H. (708) 108)

Transient ischemia; Spontaneously hypertensive rat; Acetylcholine; Acetylcholine esterase; Muscarinic M1-receptor (Ogawa, N. (712) 60)

Guinea-pig; Colon; Submucous ganglia; NADPH-diaphorase (Wang, X.-Y. (712) 107)

β(25–35); Locus coeruleus; Medial septum; Tyrosine hydroxylase; Glutamate (Chen, S.-Y. (715) 44)

Septum; Diagonal band of Broca; Nucleus basalis; Striatum; Alzheimer's disease (Gibbs, R.B. (720) 61)

Acetylcholine; Choline; Choline uptake; Phosphatidylcholine; Phosphocholine; Phospholipid; Choline kinase; Rat striatum (Farber, S.A. (723) 90)

Facial nucleus; Motoneuron; Neuron survival; Cell death; Regeneration (Gilad, V.H. (724) 141)

Vasoactive intestinal polypeptide; Tyrosine hydroxylase; Major pelvic ganglion (Dun, N.J. (738) 292)

Choline acetyltransferase activity
Kainic acid; Substance P; Neurokinin; Neostriatum; Neuroprotection; Rat; Acetylcholinesterase (Calvo, N. (740) 323)

Choline kinase
Acetylcholine; Choline; Choline uptake; Phosphatidylcholine; Phosphocholine; Phospholipid; Choline acetyltransferase; Rat striatum (Farber, S.A. (723) 90)

Choline-*O*-acetyltransferase
Rat; Hippocampus; Acetylcholine; Acetylcholinesterase; Cytosol; Synaptic vesicle; Vesamicol (Carroll, P.T. (725) 3)

Cholinergic
Hypoxia-ischemia; Development; Striatum; Acetylcholine; Microdialysis (Oo, T.F. (706) 145)

AMPA; Receptor; Nucleus basalis; Glutamate; Human; Aging; Alzheimer's disease (Ikonomovic, M.D. (716) 229)

Amphetamine; Behavioral sensitization; Cocaine; Mice; Nicotinic; Stereotypy (Karler, R. (725) 192)

Galanin; Gene expression; Horizontal limb, diagonal band of Broca; Basal forebrain; In situ hybridization histochemistry (Planas, B. (728) 57)

Nerve growth factor; Regeneration; Blood-brain barrier; Excitotoxicity; Nucleus basalis (Charles, V. (728) 193)

Penile erection; Somatostatin; Cysteamine; Serotonergic; Dopaminergic (Matsuoka, N. (729) 132)

Calcium ATPase; Synaptic terminal; Synaptic vesicle; Edinger-Westphal; Calyx (Fujii, J.T. (734) 193)

Cholinergic basal forebrain
Sleep; Nerve growth factor; EEG power spectrum; 192 IgG-saporin; Rat (Kapás, L. (712) 53)

192-Saporin; Immunotoxin; Medial septum; Spatial memory; Alzheimer's disease; Animal model (Walsh, T.J. (726) 69)

Cholinergic channel activator
Neuroprotection; Neuronal acetylcholine receptor; Glutamate; ABT-418; Calcium channel activator (Donnelly-Roberts, D.L. (719) 36)

Cholinergic degeneration
AF64A; Oxidative stress; Oxygen-free radical (Gulyaeva, N.V. (726) 174)

Cholinergic hypothesis
192 IgG-saporin; Hippocampus; Immunotoxin; Neocortex; Non-spatial memory (Vnek, N. (710) 265)

Cholinergic mechanism
Reinforced response; Learning; Memory; Microdialysis (Orsetti, M. (724) 89)

Cholinergic neuron
Transforming growth factor α; GABAergic neuron; Epidermal growth factor; Septal cell culture; Glia; Neurotrophic factor (Mazzoni, I.E. (707) 88)

Motor neuron; Sensory neuron; Cognition (Moeller, I. (712) 307)

Cholinergic system
Metabolic rate constant; Hexokinase; Ibotenic acid; Positron emission tomography (Ouchi, Y. (706) 267)

Differentiation; Protease; Growth factor; Protease activated receptor (Debeir, T. (708) 159)

Delayed Matching to Position; Prefrontal cortex; Scopolamine; Working memory; Selective attention; Rat (Herremans, A.H.J. (711) 102)

Neurotransmitter; Nicotine; Receptor; Receptor subunit (Torrão, A.S. (743) 154)

Cholinergic transmission
Neuromuscular junction; Synaptic transmission; Nitric oxide; Skeletal muscle; Ocular muscle; Acetylcholine receptor (Kusner, L.L. (730) 238)

Choline uptake
Neuroimmunomodulation; Circadian rhythm; Sympathetic nervous system; Parasympathetic nervous system; Submaxillary lymph node; Ornithine decarboxylase; Norepinephrine synthesis; Norepinephrine uptake; Acetylcholine synthesis; Superior cervical ganglion; Chorda tympani (Cardinali, D.P. (711) 153)

Acetylcholine; Choline; Phosphatidylcholine; Phosphocholine; Phospholipid; Choline acetyltransferase; Choline kinase; Rat striatum (Farber, S.A. (723) 90)

Chorda tympani
Neuroimmunomodulation; Circadian rhythm; Sympathetic nervous system; Parasympathetic nervous system; Submaxillary lymph node; Ornithine decarboxylase; Norepinephrine synthesis; Norepinephrine uptake; Choline uptake; Acetylcholine synthesis; Superior cervical ganglion (Cardinali, D.P. (711) 153)

Taste; Mixture; Hamster; Quinine; Sucrose (Formaker, B.K. (727) 79)

Chorda tympani nerve
Amiloride sensitivity; Sodium taste receptor; Temperature dependency; Mouse strain difference; NaCl preference (Ninomiya, Y. (708) 153)

Choroid plexus
Glutamic acid; Active transport; Miniswine (Kim, C.S. (709) 59)

Taurine; Hypo-osmotic stress; Volume regulation; Calmodulin antagonist; Niflumic acid (Keep, R.F. (715) 17)

Microvillus; Ezrin; Cell polarity; Spaceflight; Gravity; Electron microscopy; Immunocytochemistry (Gabrion, J. (734) 301)

Chromaffin cell
Non-selective cation channel; Adenosine triphosphate; Adenosine diphosphate; Phosphorylation; AlF complex; G protein (Inoue, M. (707) 298)

ω-Conotoxin MVIIC; Veratridine-induced cytotoxicity; Cytosolic Ca^{2+} oscillation (Maroto, R. (714) 209)

Pituitary adenylate cyclase activating polypeptide; Catecholamine; Dorsal root ganglia; Nodose ganglia (Dun, N.J. (716) 11)

Chromatin condensation
Oxygen radical; Nerve growth factor; Depolarization; Neuronal death (Kubo, T. (733) 175)

Chromosome
Open field; Serotonin (5-HT); 5-HT_{1A}; 5-HT_{1B}; 5-HT_{2A}; 5-HT_{2C}; Mapping (Clément, Y. (709) 229)

Chromosome 20
Neuronatin; Development; Proteolipid protein; Brain; Phospholamban; PMP1; Cation channel; ATPase; Neural restrictive silencer element (Dou, D. (723) 8)

Chronic
Human; Auditory cortex; Tonotopic representation; Microelectrode; Single unit (Howard III, M.A. (724) 260)

Chronic administration
Huntington's disease; Excitotoxicity ; Mitochondria; Nitric oxide synthase; NMDA; Basal ganglia (Bazzett, T.J. (718) 228)

Chronic constriction injury
Neuropeptide; Hyperalgesia; Spinal cord; Pain; Neuropathic; Model; Rat; Nerve injury (Munglani, R. (743) 102)

Chronic constriction injury rat
Messenger plasticity; Axotomy; Vanilloid receptor; Resiniferatoxin (Farkas-Szallasi, T. (719) 213)

Chronic hypoperfusion
Ligation of bilateral common carotid artery; Muscarinic acetylcholine receptor; Incomplete ischemia; Wistar rat; Rarefaction; Cerebrovascular type dementia; Discrimination learning (Tanaka, K.-i. (729) 55)

Chronic hypoxia
Cortex; Brainstem; Neurophysiology; In vitro; Brain slice (O'Reilly, J.P. (711) 203)

Carotid body; Type I cell; Ca^{2+} channel; Nifedipine; ω-Conotoxin GVIA (Peers, C. (739) 251)

Chronic lead
Dentate gyrus; Glutamate release; GABA release; Calcium; Microdialysis; Paired-pulse facilitation; Paired-pulse depression; MK-801 (Lasley, S.M. (736) 125)

Chronic pain
Tonic pain; Brain stimulation; Stimulation-produced analgesia; Antinociception; Limbic system (Fuchs, P.N. (743) 116)

Chronic treatment
Muscarinic receptor; Nicotinic receptor; Development; Brain; Nicotine (Zhu, J. (732) 257)

Chronobiology
Circadian rhythm; Light; Melatonin; Suprachiasmatic nucleus; Pineal gland (Hätönen, T. (710) 125)

Ciliary neurotrophic factor
Neurotrophic factor; Phorbol 12-myristate 13-acetate; Astrocyte; AP-1 (Nagao, H. (719) 23)

Interleukin-6; Interleukin-6 receptor; Glycoprotein gp130; Leukemia inhibitory factor; Wobbler; Motoneuron disease (Ikeda, K. (726) 91)

Motoneuron; Axotomy; Adult; Ultrastructure; Rat (Demetriou, T. (733) 312)

Ciliary recording
Odor discrimination; Odorant receptor; Single olfactory neuron; Whole-cell patch clamp; Bullfrog; Cross-adaptation (Kashiwayanagi, M. (738) 222)

Cingulate cortex
N-Methyl-D-aspartate antagonist; Dizocilipine maleate; MK-801; Neurotoxicity; Neuropathology; Spatial learning and memory; Sensorimotor; Activity; Mouse (Wozniak, D.F. (707) 165)

Neuronal plasticity; GAP-43; Quantitative immunohistochemistry; Aging; Hippocampus; Cerebellum; Olfactory bulb (Casoli, T. (714) 111)

Limbic thalamus; Single-unit activity; Avoidance learning; Discrimination; Pre-motor neuronal activity (Kubota, Y. (721) 22)

Interneuron; Calcium-binding protein; Parvalbumin; Immunocytochemistry; Neuronal circuitry (Kalus, P. (729) 45)

Nociceptive specific neuron; Morphology; Intracellular recording; Neurobiotin (Yamamura, H. (735) 83)

Cingulum bundle
Pain; Peripheral neurectomy; Autotomy; Central sensitization; Bupivacaine (Magnusson, J.E. (723) 214)

[^{14}C]iodoantipyrine
Neuronal nitric oxide synthase; 7-Nitroindazole; Trigeminal pathway; Autoradiography; Somatosensory activation; α-Chloralose (Cholet, N. (708) 197)

Circadian regulation
Oscillator; Melatonin; Pineal; Retina; Photoreception; *Danio (Brachydanio) rerio*; Organ culture (Cahill, G.M. (708) 177)

Circadian rhythm
Suprachiasmatic nucleus; Gap junction; Neuron; Astrocyte; Cell culture (Welsh, D.K. (706) 30)

Nitric oxide synthase; Nitric oxide; Sleep; Central nervous system; Hypothalamus; Protein level; Rat (Ayers, N.A. (707) 127)

Immediate early gene; Fos; Suprachiasmatic nucleus; Substance P; Spantide; Retinohypothalamic tract; Light (Abe, H. (708) 135)

Arousal; Entrainment; Serotonin; Hamster; Activity; Non-photic (Sumova, A. (709) 88)

Chronobiology; Light; Melatonin; Suprachiasmatic nucleus; Pineal gland (Hätönen, T. (710) 125)

Neuroimmunomodulation; Sympathetic nervous system; Parasympathetic nervous system; Submaxillary lymph node; Ornithine decarboxylase; Norepinephrine synthesis; Norepinephrine uptake; Choline uptake; Acetylcholine synthesis; Superior cervical ganglion; Chorda tympani (Cardinali, D.P. (711) 153)

Olfactory bulbectomy; Fluoxetine; Wheel-running activity; Mouse (Possidente, B. (713) 108)

Calcium ion; Cyclic adenosine monophosphate; Diurnal rhythm; Melatonin; Chick pineal (Nikaido, S.S. (716) 1)

Alzheimer's disease; Melatonin; Suprachiasmatic nucleus; Sleep–wake cycle; Delirium; Pineal gland; Light–dark cycle (Uchida, K. (717) 154)

Suprachiasmatic nucleus; Human hypothalamus; Vasoactive intestinal polypeptide; Vasopressin (Hofman, M.A. (722) 78)

Lateral geniculate nucleus; Intergeniculate leaflet; Geniculohypothalamic tract; Suprachiasmatic nucleus; Neuropeptide Y; Cat (Pu, M. (725) 247)

Suprachiasmatic nucleus; Photoperiod; c-*fos*; Pineal; Melatonin; Rat (Sumová, A. (725) 281)

Non-photic entrainment; Vitamin B_{12}; Saline; Daily injection; Mouse (Ebihara, S. (727) 31)

Entrainment; Immediate early gene; Suprachiasmatic nucleus; FluoroGold (Peters, R.V. (728) 231)

Intergeniculate leaflet; Suprachiasmatic nucleus; Constant light; Fos immunoreactivity (Edelstein, K. (731) 221)

Suprachiasmatic nucleus; *junB*; Gene expression; Immediate-early gene; Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (732) 215)

Retina; Disk shedding; Hamster; Retinal pigmented epithelium (Grace, M.S. (735) 93)

Tau mutant hamster; Suprachiasmatic nucleus; Vasopressin; Vasoactive intestinal peptide; Locomotor behavior (Scarbrough, K. (736) 251)

Melatonin synthesis; Pineal; Retina; Adrenergic; mRNA regulation (Gauer, F. (737) 99)

Melatonin; Forskolin (Green, C.B. (738) 1)

Aging; Spectral analysis; Sleep regulation; Sleep homeostasis; Slow wave; Sleep spindle (Landolt, H.-P. (738) 205)

Suprachiasmatic nuclei; Food anticipation; Food restriction; Entrainment; Time discrimination (Mistlberger, R.E. (739) 12)

Suprachiasmatic nucleus; *fosB*; c-*fos*; Gene expression; Immediate-early gene; Light; Entrainment; Transcription regulation (Guido, M.E. (739) 132)

Suprachiasmatic nucleus; Methamphetamine; NAN-190; 5-HT_{1A} receptor; Serotonin (Moriya, T. (740) 261)

Locomotor activity; Phase shift; Immediate-early gene; Protein synthesis inhibitor; Cycloheximide (Zhang, Y. (740) 285)

Adenosine; Suprachiasmatic nucleus; Phase shift; Retinohypothalamic tract; Fos (Watanabe, A. (740) 329)

[^{3}H]D-Aspartate; Ventromedial hypothalamic nucleus; Posterior hypothalamic nucleus; Paraventricular thalamic nucleus; Lateral septal nucleus (Moga, M.M. (743) 171)

Acetylcholine; Atropine; Carbachol; Entrainment; Mecamylamine; Suprachiasmatic; Phase–response curve (Bina, K.G. (743) 202)

Circadian rhythms
Serotonin; Quipazine; 8-OH-DPAT; Buspirone; Melatonin (Kennaway, D.J. (737) 301)

Circadian system
Suprachiasmatic nuclei; Photic responsiveness; Entrainment; Neurophysiology; Visual system (Meijer, J.H. (741) 352)

Circannual rhythm
Rat; Suprachiasmatic nucleus; Pinealectomy; Ganglionectomy; Thyroidectomy; Morphometric analysis (Peschke, E. (740) 81)

Circular water maze
Cerebral ischemia; Neuronal death; Hippocampus; Learning; Memory; LY231617; Angiotensin IV; Passive avoidance conditioning; Rat (Wright, J.W. (717) 1)

Circumvallate papilla
Transgenic mouse; Nerve growth factor; Protein gene product 9.5; Tyrosine hydroxylase; Aging (Takami, S. (707) 303)

Circumventricular organ
Cardiovascular regulation; Body fluid homeostasis; Plasma osmolality (Rosas-Arellano, M.P. (706) 323)

Cardiovascular regulation; Body fluid homeostasis; Hypothalamus (Rosas-Arellano, M.P. (707) 308)

Angiotensin receptor; Hypothalamus; Subfornical organ; Adrenal gland; DUP-753; PD-123319; CGP-42112A; Domestic mallard; Drinking; Bird; Osmoregulation (Schäfer, F. (711) 118)

Osmoreception; Lamina terminalis; c-*fos*; Organum vasculosum laminae terminalis (Bisley, J.W. (720) 25)

Noradrenergic A_2 cell group; Adrenergic C_2 cell group; Dorsal vagal complex; Angiotensin II; Baroreceptor reflex; Central cardiovascular regulation (Ciriello, J. (726) 227)

Citalopram
5-HT_{1B} receptor; 5-$HT_{1D\beta}$ receptor; Serotonin; Serotonin transporter; Serotonin receptor; 5,7-Dihydroxytryptamine; Dorsal raphe; Autoreceptor (Neumaier, J.F. (722) 50)

Autoradiography; Barrel; Thalamus (Bennett-Clarke, C.A. (733) 301)

Citric acid
Mixed culture; Co-culture; Fructose 1,6-bisphosphate; Fluorocitrate; Pentose phosphate pathway (Kelleher, J.A. (726) 167)

c-jun
Immediate early gene; c-fos; Krox-24; Vestibular nucleus; Vestibular compensation; Unilateral labyrinthectomy (Darlington, C.L. (735) 173)

Class II β-tubulin
Tubulin isotype; Class III β-tubulin; Slow axonal transport; Axon regeneration; Tubulin expression; Immunoprecipitation (Hoffman, P.N. (742) 329)

Class III β-tubulin
Tubulin isotype; Class II β-tubulin; Slow axonal transport; Axon regeneration; Tubulin expression; Immunoprecipitation (Hoffman, P.N. (742) 329)

Clenbuterol
Nerve growth factor; Hippocampal culture; Excitotoxicity; Glutamate; Protection; Cerebral ischemia (Semkova, I. (717) 44)

Clobenpropit
Histamine H_3 receptor; Binding, ex vivo; Brain penetration; Rat; Mouse; [^{125}I]Iodophenpropit; Thioperamide (Mochizuki, T. (743) 178)

Clofilium
Frog labyrinth; Endolymph; Transepithelial potential; K secretion; Synaptic transmission; Information coding (Rossi, M.L. (721) 174)

Cloned $GABA_A$ receptors
$GABA_A$ receptors; Benzodiazepine site; Low liability to abuse; U-101017 (Im, H.K. (714) 165)

Clonic seizure
Ethanol withdrawal; Neuronal firing; γ-Aminobutyric acid; Desensitization; Inferior colliculus (N'Gouemo, P. (724) 200)

Clonidine
Norepinephrine; Idazoxan; Locus ceruleus; Microinfusion; Amygdala; Kindling (Shouse, M.N. (731) 203)

Galanin receptor antagonist; Desipramine; Dipyrone; Fenfluramine; Antinociception (Selve, N. (735) 177)

Allodynia; α_2-Adrenoceptor agonist; Central pain; Intrathecal; Neuropathic pain; Sedation; Spinal cord (Hao, J.-X. (736) 28)

Cloning
Northern blot; Selective vulnerability; Human brain; Energy metabolism; Alzheimer's disease (Fukuyama, R. (713) 290)

Promoter; Gene regulation; Transcription (King, P.H. (723) 141)

Closed-head injury
Edema; Free radical; Neuroprotection; Nitroxide (Beit-Yannai, E. (717) 22)

Head trauma; Apoptosis; Cell death; Ca/Mg-dependent endonuclease; Nucleus; DNA fragmentation (Pravdenkova, S.V. (729) 151)

Clozapine
Amphetamine; Amygdala; Haloperidol; Single-unit recording in freely moving rats (Wang, Z. (711) 64)

Cl^- response
PAG neuron; Glycine; Enkephalin; 2nd messenger; PKA (Min, B.I. (734) 72)

Cluster analysis
Dog; Aging; Diffuse plaque; Morphometry (Węgiel, J. (728) 20)

Clusterin
In situ hybridization; MK-801; NBQX; Permanent MCAO; GFAP; SGP-2 (Yamashita, K. (735) 285)

CNS neuron
Bevantolol; Propranolol; Lidocaine; Nicardipine; Ca^{2+}-antagonistic action (Omura, T. (706) 289)

Coagonist hypothesis
N-Methyl-D-aspartate receptor; Glutamate; Glycine; Single channel; Competitive antagonism; Excitatory amino acid; 5,7-Dichlorokynurenate (Currás, M.C. (740) 27)

Cobalt protoporphyrin
Intracerebroventricular injection; Feeding; Neuropeptide Y; Hypothalamus (Choi, S.J. (729) 223)

Cocaethylene
Cocaine; Sensitization; Locomotor activity; Drug bioavailability (Horger, B.A. (733) 133)

Cocaine
Conditioned place preference; Ventral pallidum; Reward; Locomotor activity; Amphetamine; Dopamine; Procaine; Nucleus accumbens (Gong, W. (707) 64)

Heroin; Self-administration; Initiation phase; Motivational aspects; Nucleus accumbens; Dopamine; 6-Hydroxydopamine (Gerrits, M.A.F.M. (713) 114)

Memory; Amygdala; Lesion; One-trial inhibitory avoidance (Cestari, V. (713) 286)

Ibogaine; Noribogaine; Morphine; Drug self-administration; Microdialysis; Dopamine (Glick, S.D. (713) 294)

Tyrosine hydroxylase; Development; Cortex; Catecholamine (Wang, X.-H. (715) 221)

Ibogaine; *Iboga* alkaloid; 18-Methoxy-coronaridine; Morphine; Drug self-administration (Glick, S.D. (719) 29)

Nucleus accumbens; NMDA receptor/glycine site; Locomotor activity; Sensitization (Khan, M.A. (719) 198)

Reinforcement; Corticosterone; Metyrapone; Self-administration; Adrenalectomy (Goeders, N.E. (722) 145)

Corticosterone; Metyrapone; Stress-induced sensitization; Food restriction; Locomotor response; Psychomotor effects (Marinelli, M. (724) 251)

Amphetamine; Behavioral sensitization; Cholinergic; Mice; Nicotinic; Stereotypy (Karler, R. (725) 192)

Maternal exposure; Novelty-exploration test; Open field; Rat (Giustino, A. (728) 149)

PC12 cell; Nerve growth factor; Neuronal differentiation; Benzoylecgonine; Ecgonine methyl ester; Local anesthetic (Zachor, D.A. (729) 270)

Dopamine somatodendrites; Dopamine D_2 autoreceptors; Ventral tegmental area; Nucleus accumbens; Microdialysis (Chen, S.-Y. (729) 294)

Conditioned locomotion; SCH 23390; (−)-sulpiride; MK-801; DNQX; Rat (Cervo, L. (731) 31)

Cocaethylene; Sensitization; Locomotor activity; Drug bioavailability (Horger, B.A. (733) 133)

Dopamine; Prenatal; Nucleus accumbens; Frontal cortex; Microdialysis; Mesolimbic (Keller Jr., R.W. (742) 71)

Lidocaine; Local anesthetics; Seizure; Drug interaction (Barat, S.A. (742) 157)

D_2 receptor; Dopamine transporter; Quinpirole; Apomorphine (Little, K.Y. (742) 313)

Cocaine binding site
[^{3}H]WIN 35,428; Dopamine uptake site; Human brain (Allard, P. (706) 347)

Cochlea
Ca-ATPase; Calcium; Hearing; Motility; Outer hair cell (Zine, A. (721) 1)

Ontogenesis; Hair cell; Stereocilia bundle; Rat (Zine, A. (721) 49)

Aspartate; Vestibular end organ; Guinea pig; Immunocytochemistry; Hair cell; Freeze substitution (Usami, S.-i. (742) 43)

Glutathione; Vestibular endorgan; Guinea pig; Immunocytochemistry; Antioxidant; Freeze substitution (Usami, S.-i. (743) 337)

Cochlear implant
Auditory system; Congenital deafness; Glial cell; Transneuronal degeneration (Saada, A.A. (736) 315)

Cochlear nucleus
Auditory cortex; Corticofugal; Efferent; Fast blue; Layer V (Weedman, D.L. (706) 97)

Co-culture
Mixed culture; Citric acid; Fructose 1,6-bisphosphate; Fluorocitrate; Pentose phosphate pathway (Kelleher, J.A. (726) 167)

Coexistence
Vomeronasal organ; Trigeminal ganglion; Sphenopalatine ganglion; Nitric oxide synthase; Neuropeptide; Dual band filter; Mouse (Matsuda, H. (712) 35)

Peptidergic innervation; Double labelling immunofluorescence; Multiple dye filter; Carotid labyrinth (Kusakabe, T. (735) 307)

Cognition
Motor neuron; Sensory neuron; Cholinergic neuron (Moeller, I. (712) 307)

Pigeon; Prefrontal cortex; Hippocampus; Homing behavior; Pathway tracing (Leutgeb, S. (730) 173)

Cognitive function
Adrenergic receptor; Hypothalamus; Septal-hippocampal pathway; Tyrosine; Mouse; Eight-arm maze; Diet restriction; Anorexia nervosa (Avraham, Y. (732) 133)

Cognitive impairment
Visual recognition memory; Delayed nonmatching-to-sample; NMDA receptor; Glycine receptor; HA-966; MK-801; Monkey (Matsuoka, N. (731) 72)

Coincident signaling
$GABA_B$; Receptor; cAMP; Brain slice (Cunningham, M.D. (720) 220)

Colchicine
Dentate gyrus; Hippocampus; Neocortex; Olfaction (Heale, V.R. (712) 213)

Cold
Analgesia; Allodynia; Capsaicin; C-fiber; Hyperalgesia; Mechanical stimulation; Neuropathic pain; Spinal cord injury (Hao, J.-X. (722) 177)

Fos; CRF; Dorsal motor nucleus of the vagus; Raphe pallidus; Gastric erosion; Central amygdala; Nucleus tractus solitarius; Paraventricular nucleus of the hypothalamus (Wang, L. (736) 44)

Collision test
Serotonin; Extracellular recording; Firing pattern; Dorsal raphe nucleus (Hajós, M. (740) 162)

Colocalization
Calcium-binding protein; Confocal microscopy; Glutamate decarboxylase; Hippocampal formation; Immunocytochemistry (Miettinen, M. (706) 113)

Co-localization
Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin-3; PC2; Epileptiform activity; Co-regulation; In situ hybridization (Meyer, A. (732) 121)

Somatostatin; Neuropeptide Y; NADPH-diaphorase; Nitric oxide synthase; Striatum; Basal ganglia (Figueredo-Cardenas, G. (735) 317)

Colon
Guinea-pig; Submucous ganglia; Choline acetyltransferase; NADPH-diaphorase (Wang, X.-Y. (712) 107)

Inflammation; Visceral; Nociception; Colorectal distension; Zymosan; Excitatory amino acid; *N*-Methyl-D-aspartate (Coutinho, S.V. (736) 7)

Colonic distension
Visceral pain; Estrous cycle; Nociception; Rat; Halothane; Anesthesia (Sapsed-Byrne, S. (742) 10)

Colorectal distension
Inflammation; Visceral; Nociception; Colon; Zymosan; Excitatory amino acid; *N*-Methyl-D-aspartate (Coutinho, S.V. (736) 7)

Common marmoset
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; *N*-Methyl-4-phenylpyridine; Nimodipine; Calcium; Neurotoxicity; Striatum; Substantia nigra (Kupsch, A. (741) 185)

Communication
Autoradiography; Brain; Fish; Pituitary; Sexual dimorphism; Steroid (Fine, M.L. (709) 65)

Competitive antagonism
N-Methyl-D-aspartate receptor; Glutamate; Glycine; Single channel; Coagonist hypothesis; Excitatory amino acid; 5,7-Dichlorokynurenate (Currás, M.C. (740) 27)

Complex
Corticotropin-releasing factor; Binding protein; Urocortin; Stress (Behan, D.P. (725) 263)

Complex I
Aging; Synaptic mitochondrion; Protein carbonyl; Complex IV (Martinez, M. (731) 246)

Complex IV
Aging; Synaptic mitochondrion; Protein carbonyl; Complex I (Martinez, M. (731) 246)

Concentric needle electrode
Single unit recording; Action potential shape; Propagation block; Template matching; Human peripheral nerve; Microneurography (Wu, G. (742) 225)

Conditioned emotional response
Latent inhibition; C-*fos* immunohistochemistry; Auditory system; Limbic system; Rat brain (Sotty, F. (737) 243)

Conditioned fear
Norepinephrine; Vasopressin; Oxytocin; Prolactin; Novelty stress; Motor activity; Noxious stimulus (Onaka, T. (713) 261)

Conditioned locomotion
Cocaine; SCH 23390; (−)-sulpiride; MK-801; DNQX; Rat (Cervo, L. (731) 31)

Conditioned place preference
Ventral pallidum; Reward; Locomotor activity; Cocaine; Amphetamine; Dopamine; Procaine; Nucleus accumbens (Gong, W. (707) 64)

Orphanin FQ; Nociceptin; Orphan receptor; Opioid receptor (Devine, D.P. (727) 225)

Conditioned taste aversion
Hindbrain; Hypothalamic–pituitary–adrenal (HPA) axis; Endocrine; Behavioral toxicity (Edmonds, B.K. (712) 127)

Medial septum/diagonal band complex; Latent inhibition; 192-Saporin; Attention (Dougherty, K.D. (736) 260)

Conditioning
Transplant; Dopamine; Neonate; Sensitization; Priming (Abrous, D.N. (708) 21)

Opioid receptor antagonist; ICI-174 864; NK cell activity; Cyprodime hydrobromide (cyprodime HBr); Nor-binaltorphimine dihydrochloride (nor-BNI) (Hsueh, C.-M. (737) 263)

Conduction latency
Axon excitability; Activity dependence; Low-threshold mechanoreceptors; Electrical stimulation; Sciatic nerve; Rat (Waikar, S.S. (721) 91)

Cone pedicle
Horizontal cell; Synaptic plasticity; Dopamine; Nucleolus-like body; Light- and dark-adaptation; Efferent fiber (De Juan, J. (707) 213)

Confocal laser microscopy
Amyloid precursor protein; Cortical neuronal culture; Immunocytochemistry; Adhesion patch; β_1-Integrin (Storey, E. (735) 217)

Confocal laser scan microscope
Growth inhibitory factor; Stab wound; Gliosis; Reactive astrocyte; Immunohistochemistry (Hozumi, I. (741) 197)

Confocal laser scanning microscopy
Aluminum; 2,7-Dichlorofluorescin diacetate; Laser microprobe mass spectrometry; Hippocampal neuron; Iron; Oxidative stress; Reactive oxygen species (Xie, C.X. (743) 271)

Confocal microscopy
Calcium-binding protein; Glutamate decarboxylase; Hippocampal formation; Immunocytochemistry; Colocalization (Miettinen, M. (706) 113)

Trauma; Axotomy; Sympathetic neuron; Calcium; Neurotoxicity; Calcium channel (Sattler, R. (719) 239)

Thalamus; Local circuit neuron; GABA (Meng, X.-W. (728) 111)

Tachykinin receptor; Substance P; Immunofluorescence; Proprioception (McGonigle, D.J. (742) 1)

Congenic rat
Retinohypothalamic tract; Suprachiasmatic nucleus; Visual system; Albino (Miller, A.M. (741) 348)

Congenital deafness
Auditory system; Cochlear implant; Glial cell; Transneuronal degeneration (Saada, A.A. (736) 315)

Connexin43
Gap junction; Astrocyte; β/A4 Amyloid; Alzheimer's disease (Nagy, J.I. (717) 173)

Connexin
Gap junction; Retina; Electrical synapse; Vision; Plasticity (McMahon, D.G. (718) 89)

ω-Conopeptide
Focal cerebral ischemia; Calcium channel; Diffusion-weighted MRI; SNX-111; Excitotoxicity; Rat (Yenari, M.A. (739) 36)

ω-Conotoxin
Prostaglandin; Bradykinin; Capsaicin; Nifedipine; ω-Agatoxin; Release; Voltage-sensitive calcium channel (Evans, A.R. (712) 265)

ω-Conotoxin GVIA
Voltage-sensitive calcium channel; C-fiber; Human sural nerve (Quasthoff, S. (723) 29)

Carotid body; Type I cell; Chronic hypoxia; Ca^{2+} channel; Nifedipine (Peers, C. (739) 251)

ω-Conotoxin MVIIC
Chromaffin cell; Veratridine-induced cytotoxicity; Cytosolic Ca^{2+} oscillation (Maroto, R. (714) 209)

Consolidation
Alzheimer's disease; Acetylcholine; Arecoline; Atropine; Development; Memory; Passive-avoidance response; Pilocarpine; Scopolamine (Smith, R.D. (707) 13)

Dorsal hippocampus; Passive avoidance; Acquisition; Retrieval; Tetrodotoxin; Functional inactivation (Ambrogi Lorenzini, C. (730) 32)

Conspecific vocalization
Prefrontal cortex; 2-Fluorodeoxyglucose; Brain development; Associative learning; Memory (Poeggel, G. (743) 162)

Constant darkness
8-Hydroxy-DPAT; Phase–response curve; Neuropeptide Y; Hamster (Colecchia, E.F. (730) 227)

Constant light
Circadian rhythm; Intergeniculate leaflet; Suprachiasmatic nucleus; Fos immunoreactivity (Edelstein, K. (731) 221)

Constitutive NOS
Nitric oxide; GFAP; Weak aldehyde fixation (Gabbott, P.L.A. (714) 135)

Constructional apraxia
Praxis; Dystrophic neurite; AT8; Neurofibrillary tangle; β-Amyloid; Occipital cortex; Parietal lobe (Nielson, K.A. (741) 284)

Contraction
Muscle spindle; Kinaesthesia; Proprioception; Intrafusal; Elbow joint; Stretch; Afferent; Sensation (Wise, A.K. (735) 125)

Contralateral hemisphere hypertrophy
Rota-Rod treadmill; Cerebral palsy; Sensorimotor; Perinatal neural injury; Rat; Brain hypertrophy (Jansen, E.M. (708) 93)

Contrast–response curve
Visual cortex; NMDA receptor; Visual deprivation; Cat; Synapse elimination (Czepita, D. (728) 7)

Contrast sensitivity
Area 21a; Spatial frequency; Temporal frequency; Extrastriate cortex; Vision; Cat (Tardif, E. (716) 219)

Controlled release
Recombinant human nerve growth factor; Diffusion; Brain interstitium; Diffusion; Elimination; Polymer (Krewson, C.E. (727) 169)

Control of breathing
Upper airway; Microinjection; Decerebrate cat (Douse, M.A. (726) 213)

Convulsion
Methylmalonic acid; Organic acidemia; Neurotoxicity; Open field; Seizure; Striatum; Excitotoxicity; Rotational behavior (De Mello, C.F. (721) 120)

Convulsion, picrotoxin-induced
Picrotoxin; Sex difference; Gonadal hormone; TBOB binding; Rat (Peričić, D. (736) 174)

Convulsion susceptibility
Infant convulsion; Hyperthermia; Pentylenetetrazol; Morris water maze; Locomotor; Activity (Kornelsen, R.A. (706) 155)

Convulsive seizure
EL mouse; Nitric oxide; NADPH diaphorase; Hippocampal formation; Epilepsy (Nagatomo, I. (730) 223)

Co-occurrence
Calretinin; Calcium-binding protein; Striatum; Basal ganglia (Figueredo-Cardenas, G. (709) 145)

Cooled CCD camera
Visual cortex; Neural circuitry; Voltage-sensitive dye; Optical imaging (Tanifuji, M. (738) 83)

CO_2 partial pressure
Extracellular pH; Intracellular pH; Neural excitability; Respiratory alkalosis (Lee, J. (706) 210)

Copper
Acute phase protein; Alzheimer's disease; Ceruloplasmin; Huntington's disease; Parkinson's disease; Progressive supranuclear palsy (Loeffler, D.A. (738) 265)

Cortical neuron; Kainate; Metal ion; Patch clamp; (*S*)-α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA); *N*-methyl-D-aspartate (NMDA) (Weiser, T. (742) 211)

Copulation
Male rat; Female rat; Medial preoptic area; Bed nucleus of the stria terminalis; Medial amygdala; Midbrain; Steroids (Coolen, L.M. (738) 67)

Core
Excitotoxin; Response-reinforcement; Shell; Subregion; Re_{50}; R_{max}; Motor activity (Johnson, P.I. (722) 109)

Co-regulation
Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin-3; PC2; Epileptiform activity; Co-localization; In situ hybridization (Meyer, A. (732) 121)

Cornea
Spinal trigeminal nucleus; Caudalis; Interpolaris; c-Fos; Heart rate conditioning; Unconditioned stimulus; Medial geniculate (McEchron, M.D. (710) 112)

Corpus callosum
Sexual dimorphism; Magnetic resonance imaging; Methodology (Constant, D. (727) 99)

Corpus striatum
Olfactory tubercle; Parkinson's disease; Sex differences; Orchidectomy; Estrogen (Dluzen, D.E. (715) 113)

Correlation
Ipsilateral projection; Lateral geniculate nucleus; Superior colliculus; Double-labeling; Fluorescent tracer; Albino rat (Farid Ahmed, A.K.M. (706) 163)

Correlation dimension
Somatosensory cortex; Anesthetized rat; Periodic medial lemniscus stimulation; Field potential; Phase-locking; Chaos; One-dimensional strobomap; Strange attractor; Period doubling-bifurcation; Lyapunov exponent (Ishizuka, S. (723) 46)

Cortex
Varicosity; Spine; Biotinylated dextran amine; Pigeon (Veenman, C.L. (707) 1)

Glutamate; *N*-Methyl-D-aspartate (NMDA); In situ hybridization; Dizocilpine; Striatum; Midbrain (Healy, D.J. (708) 38)

Brain-derived neurotrophic factor; Norepinephrine; Dopamine; Serotonin; Raphe nucleus; Periaqueductal gray; Hippocampus; Nucleus accumbens; Hypothalamus; Substantia nigra (Siuciak, J.A. (710) 11)

Purine; Hippocampus; Striatum; Adenosine transporter (Glass, M. (710) 79)

Allopregnanolone; Acetylcholine release; Stress; Hippocampus; Freely moving rat (Dazzi, L. (710) 275)

Neuronal activity; Right temporal lobe; Visuospatial memory (Holmes, M.D. (711) 44)

Brainstem; Chronic hypoxia; Neurophysiology; In vitro; Brain slice (O'Reilly, J.P. (711) 203)

γ-Aminobutyric acid; Somatosensory; Inhibition; Microiontophoresis (Kyriazi, H.T. (712) 325)

Cocaine; Tyrosine hydroxylase; Development; Catecholamine (Wang, X.-H. (715) 221)

Autoimmunity; Cortical development; Dyslexia; Enriched environment; Ectopia; Hebb-Williams maze; Lashley maze; Morris maze; Neuronal migration; Reference memory (Boehm, G.W. (726) 11)

Serotonin; Receptor; Transporter; Rat (Crayton, J.W. (728) 260)

Acidosis; Neuron death; Metabolism; Hippocampus; Hypoxia ischemia; NMDA receptor; Microphysiometry (Trafton, J. (731) 122)

Brain-derived neurotrophic factor; Nerve growth factor; TrkB receptor; Protein kinase C; cyclic AMP (Barnea, A. (732) 52)

Uric acid; Thalamus; Rat; Traumatic brain injury; Microdialysis (Tayag, E.C. (733) 287)

Methamphetamine; Histamine; Histidine decarboxylase; Striatum; Diencephalon; Rat (Ito, C. (734) 98)

Melanocortin; Corticospinal tract; Cell culture; Neuron polarity; Axon; Dendrite; Trophic factor (Joosten, E.A.J. (736) 91)

Magnetoencephalography; Somatosensory; Evoked field; Area 3b; Human (Vanni, S. (737) 25)

Cholecystokinin; Receptor subtype; Autoradiography; Neuroanatomy; Monkey (Mercer, L.D. (738) 313)

Brain-derived neurotrophic factor; Release; Synaptosome; Slice; Superfusion; Veratridine; Hippocampus (Androutsellis-Theotokis, A. (743) 40)

Cortical catecholamine
Fixed-ratio discrimination learning; Neonatal 6-hydroxydopamine; Striatal catecholamine; Dopaminergic neuronal plasticity; Operant training (Stodgell, C.J. (713) 246)

Cortical circuit
Synapse; Autonomic function; Limbic system (Bacon, S.J. (720) 211)

Cortical contusion
Traumatic brain injury; Hippocampal CA3 region; Cerebral glucose metabolism (Queen, S.A. (724) 246)

Cortical development
Autoimmunity; Cortex; Dyslexia; Enriched environment; Ectopia; Hebb-Williams maze; Lashley maze; Morris maze; Neuronal migration; Reference memory (Boehm, G.W. (726) 11)

Cortical ectopia
Transgenic insertion mutation; Neuronal migration; Mouse; *Perinatal lethality*; Microgyria; Dysgenesis; Cerebral cortex (Beier, D.R. (727) 196)

Cortical impact
Cell death; Hippocampus; Spatial memory (Colicos, M.A. (739) 111)

Spatial memory; Apoptosis; Granule cell (Colicos, M.A. (739) 120)

Cortical layer
Fos; Cerebral cortex; Dopamine; Reserpine; D1/D2 synergism; Basal ganglia; Immediate-early gene (LaHoste, G.J. (728) 97)

Cortical modulation
Lateral geniculate nucleus; Temporal tuning (Marrocco, R.T. (737) 110)

Cortical module
Medial prefrontal cortex; Pyramidal neuron; Apical dendritic bundle/cluster; Limbic/autonomic cortex (Gabbott, P.L.A. (730) 75)

Cortical neuron
$GABA_A$ receptor; Neurosteroid; Patch clamp; Decreased efficacy (Yu, R. (706) 160)

PC12; Serum deprivation; Programmed cell death; Nerve growth factor; Reactive oxygen species (Satoh, T. (733) 9)

PACAP; Glutamate; Cyclic AMP; Cytoprotection; Neurotoxicity (Morio, H. (741) 82)

Kainate; Copper; Metal ion; Patch clamp; (*S*)-α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA); *N*-methyl-D-aspartate (NMDA) (Weiser, T. (742) 211)

Cortical neuronal culture
Amyloid precursor protein; Immunocytochemistry; Confocal laser microscopy; Adhesion patch; β_1-Integrin (Storey, E. (735) 217)

Cortical noradrenaline
Poly(ADP-ribose) polymerase; Benzamide; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; C57Bl/6 mouse; Striatal dopamine (Cosi, C. (729) 264)

Cortical rhythm
Movement; Human; Magnetoencephalography; Spectral power; Spontaneous activity; Motor cortex; Somatosensory cortex; Event-related spectral change; Movement-related magnetic field (Feige, B. (734) 252)

Cortical spreading depression
Human brain monitoring; Cerebral blood flow; Extracellular K^+; NADH redox state; Intracranial pressure; Multiparametric monitoring; Head trauma (Mayevsky, A. (740) 268)

Cortical synaptosome
Tacrine; In vitro ACh release; Atropine; AF-DX 116; Pirenzepine; Muscarinic receptor (Svensson, A.-L. (726) 207)

Corticofugal
Auditory cortex; Cochlear nucleus; Efferent; Fast blue; Layer V (Weedman, D.L. (706) 97)

Corticogenesis
Microgyria; [^{3}H]Thymidine; Bromodeoxyuridine; S-phase marker; Neocortex (Rosen, G.D. (727) 71)

Corticospinal cell
Basal ganglia; Striatum; Motor cortex; Second somatosensory cortex; Corticothalamic cell (Lévesque, M. (709) 311)

Corticospinal neuron
Plasticity; Dendritic branching; Recovery of function; Motor cortex; Skilled forelimb use in rat (Prusky, G. (714) 1)

Corticospinal tract
Monkey; Primary motor cortex; Precentral cortex; Immunocytochemistry; Calcium-binding proteins; Seizure; Epilepsy (Preuss, T.M. (712) 353)

c-*fos*; Cervical interneuron; Sensorimotor cortex; Kainate; Rat (Curfs, M.H.J.M. (725) 88)

Melanocortin; Cortex; Cell culture; Neuron polarity; Axon; Dendrite; Trophic factor (Joosten, E.A.J. (736) 91)

Corticosteroid receptor
Hippocampus; Sex difference; Autoradiography (MacLusky, N.J. (708) 71)

Stress; HPA axis; Dopamine system; Selection line; Free corticosterone (Rots, N.Y. (710) 189)

C57BL/6; DBA/2; Hippocampus; LY 171555; Passive avoidance; SKF 38393; SCH 23390; (−)-Sulpiride (Cabib, S. (729) 110)

Corticosterone
Glucocorticoid receptor; Hippocampus; In situ hybridization; Paraventricular nucleus of the hypothalamus; Rat (Helmreich, D.L. (706) 137)

Feeding; Drinking; Restraint; Stress; Sensitization; Hypothalamic–pituitary–adrenal axis; Adrenal hormone; Glucocorticoid; Rat (Badiani, A. (710) 35)

Cocaine; Reinforcement; Metyrapone; Self-administration; Adrenalectomy (Goeders, N.E. (722) 145)

Cocaine; Metyrapone; Stress-induced sensitization; Food restriction; Locomotor response; Psychomotor effects (Marinelli, M. (724) 251)

Self-stimulation; Food restriction; Sensitization; Aminoglutethimide; Metyrapone (Abrahamsen, G.C. (726) 39)

Dexamethasone; Amino acid; Hippocampus; Striatum; Population spike; Microdialysis; ACTH (Ábrahám, I. (733) 56)

Aggression; 5-HT_{1A} mRNA; 8-OH-DPAT; Hippocampus; Wild house mice (Korte, S.M. (736) 338)

Ibogaine; Prolactin; Dopamine; Serotonin (Ali, S.F. (737) 215)

Mineralocorticoid receptor; Glucocorticoid receptor; Aldosterone; Synaptic plasticity; Long-term potentiation; CA1 (Pavlides, C. (738) 229)

Immobilization stress; c-*fos*; Rat; Lactation; Pregnancy; Paraventricular nucleus (Da Costa, A.P.C. (742) 177)

Cerebral ischemia; Hypoxia; Neuroprotection; Dexamethasone; Glucocorticoid; RU38486; Infant (Tuor, U.I. (743) 258)

Corticothalamic cell
Basal ganglia; Striatum; Corticospinal cell; Motor cortex; Second somatosensory cortex (Lévesque, M. (709) 311)

Corticotropin-releasing factor
Opioid peptide; c-*fos*; In situ hybridization; Hypothalamic–pituitary–adrenal axis (Wang, X.-Q. (707) 189)

Social isolation stress; Mouse; Pentobarbital sleep; Neurosteroid; Noradrenergic system (Matsumoto, K. (708) 1)

5-HT receptors; Neuropeptide Y; Paraventricular nucleus of the hypothalamus; Feeding (Grignaschi, G. (708) 173)

Adenylate cyclase activity; Adrenocorticotropin; cAMP production; Pituitary; Receptor downregulation (Dieterich, K.D. (710) 287)

Phenylethanolamine-*N*-methyltransferase; Neurotensin; External cuneate nucleus; Gerbil (Lan, C.-T. (711) 211)

Locus coeruleus; Stress; Electrophysiology; Depression; Desensitization; Blood pressure (Conti, L.H. (722) 19)

Corticotropin-releasing hormone; CRH; CRF; Locus coeruleus; Electrophysiology (Borsody, M.K. (724) 149)

Binding protein; Urocortin; Stress; Complex (Behan, D.P. (725) 263)

Alcohol; ACTH; Vasopressin; Hypothalamus; Rat (Rivier, C. (726) 1)

Brain–gut axis; Gastric secretion; Locus coeruleus; Autonomic nervous system; Stress (Mönnikes, H. (728) 157)

Cardiovascular; Hydralazine; Spontaneously hypertensive rat; Wistar–Kyoto rat (Youngblood, K. (734) 175)

Fos; Seizure; Hypothalamus; Amygdala; Stria terminalis (Piekut, D. (743) 63)

Corticotropin-releasing factor receptor
Alcohol; ACTH; Antagonist; Hypothalamus; Rat (Rivier, C. (721) 83)

Corticotropin-releasing hormone
CRH; Corticotropin-releasing factor; CRF; Locus coeruleus; Electrophysiology (Borsody, M.K. (724) 149)

Neuropeptide Y; Arousal; Sodium pentobarbital; Psychological stress; Locomotor activity; Sedative action (Yamada, K. (725) 272)

Locus coeruleus; Sacral parasympathetic nucleus; Biocytin; Retrograde tracing; Anterograde tracing (Valentino, R.J. (732) 1)

Corticotropin-releasing hormone mRNA
Fos; Immunohistochemistry (Eaton, M.J. (738) 60)

Cortiotropin releasing factor
Binding protein; Stress; Membrane; Purification; Sheep (Behan, D.P. (709) 265)

COX-2 inhibitor
Carrageenan; Inflammation; Nociception; Spinal cord; Rat (Buritova, J. (715) 217)

CP 55,940
Cannabinoid; Receptor down-regulation; Tolerance; Adenylyl cyclase; Mouse (Fan, F. (706) 13)

CP-99,994
Substance P; Substance P(1–7); Iontophoresis; Wind-up; Nociception; Spinal cord; Rat (Budai, D. (710) 197)

CP-99,994-1
Mechanical allodynia; Mechanical hyperalgesia; NK1 antagonist; Tachykinin (Carlton, S.M. (734) 103)

***p*CPA**
Preprotachykinin; Preproenkephalin; Zif/268; *N*-Methyl-D-aspartate receptor; Basal ganglia (Cummings, T.J. (743) 240)

CPAF
Astrocyte; Nitric oxide; ET-18-OCH_3; Platelet activating factor; PAF; LPS; BN 50730 (Cardile, V. (715) 98)

CPP
Hypoxia; Brain; NMDA receptor (Fritz, K.I. (729) 66)

Creatine phosphokinase
Haloperidol; Atropine; Dantrolene sodium; Forced hyperthermia; Muscle rigidity; Set-point; Neuroleptic malignant syndrome (Tanii, H. (743) 263)

Crespi effect
Amygdala; Central nucleus; Basolateral nucleus; Ibotenic acid; Reward reduction; Behavioral contrast; Frustration effect (Salinas, J.A. (742) 283)

Crest synapse
Acetylcholine; γ-Aminobutyric acid; Nucleus prepositus hypoglossi; Optokinetic reflex; Electron microscopy (Caffé, A.R. (724) 136)

CRF
Corticotropin-releasing hormone; CRH; Corticotropin-releasing factor; Locus coeruleus; Electrophysiology (Borsody, M.K. (724) 149)

Fos; Cold; Dorsal motor nucleus of the vagus; Raphe pallidus; Gastric erosion; Central amygdala; Nucleus tractus solitarius; Paraventricular nucleus of the hypothalamus (Wang, L. (736) 44)

CRH
Corticotropin-releasing hormone; Corticotropin-releasing factor; CRF; Locus coeruleus; Electrophysiology (Borsody, M.K. (724) 149)

Critical period
Amblyopia; Hooded rat; Monocular deprivation; Nerve growth factor; Visual evoked response (Yan, H.Q. (706) 318)

Cross-adaptation
Odor discrimination; Odorant receptor; Single olfactory neuron; Whole-cell patch clamp; Ciliary recording; Bullfrog (Kashiwayanagi, M. (738) 222)

Cross axis
Adaptation; Medial vestibular nucleus; Motor learning; Plasticity; Single unit; Superior vestibular nucleus; Vestibulo-ocular reflex (Quinn, K.J. (718) 176)

Crosslink
Alzheimer disease; Glycation; Neurofibrillary pathology; Paired helical filament; Solubility (Smith, M.A. (717) 99)

Crustacea
Long-term memory; Learning; Protein kinase A; cAMP analog; Habituation (Romano, A. (735) 131)

CTA
D1; D2; SCH 23390; Sulpiride; Visceral distress; Taste; Rat (Caulliez, R. (729) 234)

C-type natriuretic peptide
Atrial natriuretic peptide; c-*fos*; Immediate–early gene; Drinking behavior; Angiotensin II (Zhu, B. (734) 55)

Atrial natriuretic peptide; Brain natriuretic peptide (Pan, J.-T. (737) 78)

Culture
Glutamate; Neurotoxicity; *N*-Methyl-D-aspartate; Nitric oxide (NO); Retina (Kashii, S. (711) 93)

Axotomy; Spinal cord injury; Ion; Calcium; Trauma; Gray matter; White matter (Rosenberg, L.J. (734) 349)

CA1 neuron; Glutamate; Hypoxia; Nitric oxide; Platelet activating factor; Postnatal; Rat (Ohmori, T. (743) 109)

Cultured hippocampal neuron
Transforming growth factor-β1; Neurite regeneration (Abe, K. (723) 206)

Cultured neuron
$GABA_A$ receptor; Lanthanide; Septal neuron; Voltage clamp (Kumamoto, E. (723) 235)

Heat stress; Neuroprotection; Excitotoxicity; Gene expression; Heat shock protein (Snider, B.J. (729) 273)

Cyclic GMP; Glutamate; Isoflurane; Nitric oxide; Volatile anesthetic; Rat (Loeb, A.L. (734) 295)

Heat-shock; Stress protein; Survival; Neuroprotection; Antisense oligonucleotide (Sato, K. (740) 117)

Cuneate nucleus
Postsynaptic inhibition; Presynaptic inhibition; Interneuron; Somatosensory; Gracile nucleus (Popratiloff, A. (706) 308)

Calbindin; Calretinin; Gracile nucleus; Parvalbumin; Somatosensory; Synaptic organization (Crockett, D.P. (707) 31)

Cuneiform nucleus
Visual system; Development; Projection neuron; Optic tectum; Acetylcholine (Banfro, F.T. (733) 273)

M-Current
Dorsal root ganglion; Tachykinin; Potassium current; NK_1 receptor; G-Protein (Akasu, T. (713) 160)

Current source density
Hippocampus; Isolated field excitatory postsynaptic potential; Decay time constant; Late event; Stratum radiatum stimulation (Kolta, A. (737) 133)

Cutaneous afferent
Spinal convergence; Size principle; Segmental reflex; Pain; Voluntary command; Human locomotion (Rossi, A. (714) 76)

Cu / Zn superoxide dismutase
Rabbit; Spinal ischemia; Nitric oxide synthase; Nitrotyrosine; Motor neuron death (Watanabe, M. (732) 69)

CuZn-superoxide dismutase
Heat shock protein; Hippocampal CA1 neuron; *hsp*70 mRNA; Oxygen-free radical; Transgenic mouse; Transient global cerebral ischemia (Kondo, T. (737) 321)

Cyanide
Calcium; Hippocampal slice; Autofluorescence; Fura dye; Kainate (Brooke, S.M. (706) 283)

Calcium; Hypoxia; NMDA antagonist; Neurotoxicity; Fura-2 (Ferger, D. (732) 87)

Cyclic adenosine monophosphate-regulated phosphoprotein-21 (ARPP-21)
Limbic striatum; Promoter; Gene structure; Transfection; Repression (Ivkovic, S. (709) 10)

Cyclic adenosine monophosphate (cyclic AMP)-dependent protein kinase
Na channel; Up-regulation; [^{3}H]Saxitoxin binding; ^{22}Na influx; ^{45}Ca influx; Catecholamine secretion; Adrenal medulla (Yuhi, T. (709) 37)

Cyclic adenosine monophosphate
Tetrahydrobiopterin; Epidermal growth factor; Nerve growth factor; Interferon-γ; Tyrosine hydroxylase; Guanosine triphosphate cyclohydrolase; Sphingosine; Pheochromocytoma cell (Anastasiadis, P.Z. (713) 125)

Calcium ion; Circadian rhythm; Diurnal rhythm; Melatonin; Chick pineal (Nikaido, S.S. (716) 1)

Cyclic adenosine 3′, 5′-monophosphate
Differentiation; Forskolin; Galactocerebroside; Proliferation (Yamada, H. (719) 187)

Cyclic AMP
Pineal; Malate dehydrogenase; Phosphorylation; Aspartate/malate shuttle (Weller, J.L. (713) 8)

Adenosine A_1; Adrenaline α_2; Dopamine D_2; Pertussis toxin; G protein; Rhythmic bladder contraction; Rat (Oka, M. (727) 91)

Astrocyte; Glia; Opioid peptide; Neuron–glia interaction; Glucocorticoid; Preproenkephalin (McMillian, M.K. (730) 67)

7-OH-DPAT; Acetylcholine, striatal; D_1/D_2 dopamine activity (Sethy, V.H. (733) 41)

PACAP; Glutamate; Cortical neuron; Cytoprotection; Neurotoxicity (Morio, H. (741) 82)

Cyclic AMP accumulation
P_2 Purinoceptor; Cytosolic Ca^{2+} concentration; NG108-15 cell (Song, S.-L. (734) 243)

Cyclic AMP regulated sequence
Trinucleotide repeat; E-box; C6 cell; PC12 cell; L6 cell (Song, W. (721) 204)

Cyclic GMP
Melatonin; Retina; Golden hamster; Phosphodiesterase; Guanylate cyclase (Faillace, M.P. (711) 112)

Noradrenaline release; Hippocampal slice; Sodium nitroprusside; Dithiothreitol (Satoh, S. (733) 167)

Glutamate; Isoflurane; Nitric oxide; Volatile anesthetic; Cultured neuron; Rat (Loeb, A.L. (734) 295)

Amitriptyline; Antidepressant; Guanylyl cyclase; 5-HT_3 receptor; NG 108-15 cells; Serotonin (5-HT) (Shimizu, M. (741) 89)

Cyclic response element-binding protein
Kainic acid; Gene transcription; Astrocyte (Ferrer, I. (712) 159)

Cyclin
Cyclin-dependent kinase; Plasticity; Cell cycle; Tau protein; Development (Matsushita, M. (734) 319)

Cyclin-dependent kinase
Immunohistochemistry; Purkinje cell; Trigeminal ganglia; Nuclear protein; Central nervous system; Peripheral nervous system (Ino, H. (732) 179)

Cyclin; Plasticity; Cell cycle; Tau protein; Development (Matsushita, M. (734) 319)

Cycloheximide
Astrocyte, Type 1; Monoamine oxidase expression; Monoamine oxidase (MAO) A mRNA; Monoamine oxidase (MAO) B mRNA; Dexamethasone; RU 486; Deprenyl; Actinomycin D (Carlo, P. (711) 175)

Programmed cell death; Apoptosis; Stroke; Glutamate; Excitotoxicity; Propidium iodide (Kharlamov, A. (734) 1)

Circadian rhythm; Locomotor activity; Phase shift; Immediate-early gene; Protein synthesis inhibitor (Zhang, Y. (740) 285)

Protein synthesis inhibition; Brain slice; Global cerebral ischemia (Buchkremer-Ratzmann, I. (743) 329)

Cyclooxygenase-2
Interleukin-1; Intercellular adhesion molecule-1; Type-1 interleukin-1 receptor; Fever; Hybridization, in situ; Endothelial cell (Cao, C. (733) 263)

Cerebral ischemia; Hippocampus (Ohtsuki, T. (736) 353)

Cyclooxygenase-1
Cyclooxygenase-2; Formalin test; Hot plate test; Prostaglandin (Yamamoto, T. (739) 104)

Cyclooxygenase-2
Cyclooxygenase-1; Formalin test; Hot plate test; Prostaglandin (Yamamoto, T. (739) 104)

D-Cycloserine
Milacemide; NMDA/glycine site; β-Amyloid; Amnesia (Maurice, T. (731) 249)

Glycine site; Memory; Morris water maze; *N*-methyl-D-aspartate; Rat; Treatment (Temple, M.D. (741) 246)

Cyclosporin A
Methylprednisolone; Neural transplantation; Xenograft; Immunology; Inflammation; Cytokine; Brain; Rat (Duan, W.-M. (712) 199)

N-Methyl-D-aspartate (NMDA) receptor; Long-term potentiation; Depotentiation; FK506; Calcineurin; Synaptic plasticity; Hippocampus (Lu, Y.-F. (729) 142)

Calcineurin; Dephosphorylation; Immunosuppressant; Memory; Phosphatase (Bennett, P.C. (730) 107)

Parkinson's disease; 6-Hydroxydopamine; Amine concentration; Dopamine turnover; Degeneration of nigrostriatal dopamine neurons (Matsuura, K. (733) 101)

Cyclothiazide
Organotypic slice culture; Receptor desensitization (Arai, A. (716) 202)

AMPA; Edema; Purkinje cell; Cerebellum; Non-NMDA; Desensitization (Strahlendorf, J.C. (729) 197)

CYP2D
Brain; Cytochrome P450; Metabolism; Antidepressant; Inhibitor (Sequeira, D.J. (738) 24)

CYP2E1
Basal ganglia; Brain; Immunohistochemistry; NADPH-P450 oxidoreductase; P450; Parkinson's disease (Riedl, A.G. (743) 324)

Cystatin C
Apolipoprotein E; GFAP; Immunocytochemistry; Ischemia; Hippocampus; Gerbil (Ishimaru, H. (709) 155)

Cysteamine
Penile erection; Somatostatin; Cholinergic; Serotonergic; Dopaminergic (Matsuoka, N. (729) 132)

Cysteine
Tripeptide reduced glutathione; Astrocyte; Catabolism; Ischemia; ATP; Glutamate; Neurotoxicity; Sodium-potassium ATPase (Juurlink, B.H.J. (710) 229)

L-Cysteine
Nerve growth factor; PC12; L-Cystine (Pan, Z. (740) 21)

L-Cystine
Nerve growth factor; PC12; L-Cysteine (Pan, Z. (740) 21)

Cytisine
Acetylcholine; Nicotine; Septal lesion; Pyramidal cell; Hippocampus; α-Bungarotoxin (Frazier, C.J. (727) 217)

Cytochrome *c* oxidase
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); 1-Methyl-4-phenylpyridine (MPP^+); Neurotoxicity; NADH-ubiquinone oxidoreductase; Succinate-ubiquinone oxidoreductase; Ubiquinol-cytochrome *c* reductase (Desai, V.G. (715) 1)

Cytochrome oxidase
Hypercapnia; Hypoxia; Metabolic hypothesis; Photo-dissociation (Osanai, S. (711) 56)

Cytochrome oxidase histochemistry
Hypobaric hypoxia; Hypometabolism; Hypoxic adaptation; Brain energy metabolism (LaManna, J.C. (720) 1)

Cytochrome P450
Brain; CYP2D; Metabolism; Antidepressant; Inhibitor (Sequeira, D.J. (738) 24)

Cytochrome P45011B1
Cerebral cortex; In situ hybridization; Neurosteroid; Transgenic rat; Hypertension (Erdmann, B. (733) 73)

Cytokine
Methylprednisolone; Cyclosporin A; Neural transplantation; Xenograft; Immunology; Inflammation; Brain; Rat (Duan, W.-M. (712) 199)

Interleukin-6; Nerve growth factor; Traumatic brain injury; Astrocyte; Human (Kossmann, T. (713) 143)

Microglia; Interleukin-6; Granulocyte/macrophage colony-stimulating factor; Astrocyte (Suzumura, A. (713) 192)

Neurite elongation; Regeneration; Neurite branching (Sarder, M. (715) 9)

Preoptic area; Anterior hypothalamus; Brain microdialysis, in vivo; Endotoxin; Body temperature; Prostaglandin E_2; Neuroimmunomodulation (Sehic, E. (726) 160)

Interleukin-1β; Immune; Adrenocorticotropin; Regulation; Hypothalamic-pituitary-adrenal axis; Vagus (Kapcala, L.P. (728) 247)

Interleukin-2; Intracranial self-stimulation; Microdialysis; Dopamine; Psychoneuroimmunology (Anisman, H. (731) 1)

Interleukin-1β; Hyperalgesia; Diclofenac; α-Melanocyte-stimulating hormone; Prostaglandin; Central nervous system (Oka, T. (736) 237)

Cytoprotection
PACAP; Glutamate; Cortical neuron; Cyclic AMP; Neurotoxicity (Morio, H. (741) 82)

Cytoskeleton
Axon regeneration; Axonal transport; Axotomy; β-Tubulin; Sensory neuron; Dorsal root; Sciatic nerve (Hoffman, P.N. (708) 182)

Ethanol; Ca^{2+} release; Ca^{2+} store; Protein kinase C (Mironov, S.L. (714) 27)

Axonal injury; Axotomy; Traumatic brain injury; Neurofilament; Microtubule; Mitochondrion; Membrane (Pettus, E.H. (722) 1)

Cytosol
Rat; Hippocampus; Acetylcholine; Choline-*O*-acetyltransferase; Acetylcholinesterase; Synaptic vesicle; Vesamicol (Carroll, P.T. (725) 3)

Cytosolic Ca^{2+} concentration
P_2 Purinoceptor; Cyclic AMP accumulation; NG108-15 cell (Song, S.-L. (734) 243)

Cytosolic calcium ($[Ca^{2+}]_i$)
Glomus cell; Pheochromocytoma 12 cell; Vascular smooth muscle cell (A7r5); Carotid body; Hypoxia (Bright, G.R. (706) 297)

Cytosolic Ca^{2+} oscillation
Chromaffin cell; ω-Conotoxin MVIIC; Veratridine-induced cytotoxicity (Maroto, R. (714) 209)

Cytotoxicity
Oxidative stress; Antioxidant enzyme; Neuroleptic drug; PC12 (Behl, C. (717) 193)

MPTP; MPP^+; Heat shock protein; Fibroblast (Freyaldenhoven, T.E. (735) 42)

D

δ
Autonomic; Enkephalin; ICI 154,129; μ; Naloxone; Opioid; Solitarius; Vagal (Feldman, P.D. (709) 331)

D1
CTA; D2; SCH 23390; Sulpiride; Visceral distress; Taste; Rat (Caulliez, R. (729) 234)

D2
CTA; D1; SCH 23390; Sulpiride; Visceral distress; Taste; Rat (Caulliez, R. (729) 234)

Daily injection
Circadian rhythm; Non-photic entrainment; Vitamin B_{12}; Saline; Mouse (Ebihara, S. (727) 31)

Dalargin
Analgesia; Blood–brain barrier; Nanoparticle; Poly(butylcyanoacrylate); Mouse (Schröder, U. (710) 121)

Danio (Brachydanio) rerio
Circadian regulation; Oscillator; Melatonin; Pineal; Retina; Photoreception; Organ culture (Cahill, G.M. (708) 177)

Dantrolene
Cell division; Endogenous opioid system; μ-Opioid receptor; Neural development; Intracellular calcium; Nifedipine; Thapsigargin; Fura-2 (Hauser, K.F. (720) 191)

Dantrolene sodium
Haloperidol; Atropine; Forced hyperthermia; Creatine phosphokinase; Muscle rigidity; Set-

point; Neuroleptic malignant syndrome (Tanii, H. (743) 263)

DA1 receptor
DA2 receptor; Vestibular compensation; Aging; Rat; Quantitative receptor autoradiography (Giardino, L. (736) 111)

DA2 receptor
DA1 receptor; Vestibular compensation; Aging; Rat; Quantitative receptor autoradiography (Giardino, L. (736) 111)

Darkness
Pyroglutamyl peptidase I; Asymmetry; Retina; Hypothalamus; Light; Rat (Sánchez, B. (731) 254)

Dark-rearing
Rat; In situ hybridization; Photoreceptor; Rod; Inner segment; Development (Hoover, F. (718) 124)

DBA/2
Corticosteroid receptor; C57BL/6; Hippocampus; LY 171555; Passive avoidance; SKF 38393; SCH 23390; (−)-Sulpiride (Cabib, S. (729) 110)

DBA/2 mice
Restraint; Oxotremorine; Locomotor activity; Acetylcholine; Muscarinic receptor; Prefrontal cortex (Pullia, D. (743) 333)

DC potential
Hypoxia; Human brain slice; Anoxic terminal negativity (Köhling, R. (741) 174)

D_1/D_2 dopamine activity
7-OH-DPAT; Acetylcholine, striatal; Cyclic AMP (Sethy, V.H. (733) 41)

D_2 dopamine receptor
Substantia nigra pars reticulata; Quinpirole; EEDQ; Pertussis toxin; Iontophoresis; Extracellular single unit recording (Martin, L.P. (729) 156)

D1/D2 synergism
Fos; Cerebral cortex; Dopamine; Reserpine; Cortical layer; Basal ganglia; Immediate-early gene (LaHoste, G.J. (728) 97)

Deafferentation
Quinelorane; κ Opioid receptor; U-50,488; Nor-binaltorphimine; Prolactin (Durham, R.A. (732) 113)

Decapitation ischemia
Ascorbate; Glutathione; Free radicals; Gender; Hippocampus; Sex hormone (Kume-Kick, J. (738) 8)

Decay time constant
Hippocampus; Isolated field excitatory postsynaptic potential; Current source density; Late event; Stratum radiatum stimulation (Kolta, A. (737) 133)

Decerebrate cat
Vestibular rotation; Flocculus; Purkinje cell; Adaptation (Powell, K.D. (710) 281)

Control of breathing; Upper airway; Microinjection (Douse, M.A. (726) 213)

Decreased efficacy
$GABA_A$ receptor; Neurosteroid; Patch clamp; Cortical neuron (Yu, R. (706) 160)

Deep piriform cortex
Serotonin; Substantia nigra; Bicuculline; Seizure; γ-Aminobutyric acid (Pasini, A. (724) 84)

Defensive rage behavior
Medial hypothalamus; Midbrain periaqueductal gray; Excitatory amino acid; Receptor binding; Immunocytochemical labeling; NMDA receptor (Schubert, K. (726) 80)

Defensive reaction
Superior colliculus; Periaqueductal gray matter; Endogenous opioid (Coimbra, N.C. (736) 348)

Deferoxamine
Spatial memory; Free radical; Brain injury (Long, D.A. (717) 109)

Degeneration
Pramipexole; Nigrostriatal; Neuroprotection; Ischemia; Methamphetamine (Hall, E.D. (742) 80)

Peripheral nerve; Nerve repair; Regeneration; Transplantation; Rat (Gulati, A.K. (742) 265)

Degeneration of nigrostriatal dopamine neurons
Cyclosporin A; Parkinson's disease; 6-Hydroxydopamine; Amine concentration; Dopamine turnover (Matsuura, K. (733) 101)

Dehydration
Uni- or bi- AV3V lesion; c-*fos*; Vasopressin neuron; Oxytocin neuron; Angiotensin II (Xu, Z. (713) 36)

Dehydroepiandrosterone
Acetylcholine; Dehydroepiandrosterone sulfate; Hippocampus; Memory; Microdialysis; Neurosteroid (Rhodes, M.E. (733) 284)

Dehydroepiandrosterone sulfate
Acetylcholine; Dehydroepiandrosterone; Hippocampus; Memory; Microdialysis; Neurosteroid (Rhodes, M.E. (733) 284)

Delayed Matching to Position
Prefrontal cortex; Cholinergic system; Scopolamine; Working memory; Selective attention; Rat (Herremans, A.H.J. (711) 102)

Delayed neuronal death
Bax; Bcl-2; CA1; Gerbil; Apoptosis (Hara, A. (711) 249)

Hypoxic pretreatment; Hypoxic tolerance; Superoxide dismutase; Rat; Hippocampus (Gorgias, N. (714) 215)

Ischemia; Transferrin; Ferritin; Astrocyte; Microglia; Oligodendrocyte; Immunocytochemistry (Ishimaru, H. (726) 23)

Nitric oxide; Nitric oxide synthase inhibitor; Hyperthermia; Glutamate; Hippocampus; Gerbil (Kohno, K. (738) 275)

Transient global ischemia; Ischemic tolerance; Hyperbaric oxygen; Gerbil (Wada, K. (740) 15)

Zinc; Ca^{2+}-Mg^{2+} endonuclease; Apoptosis (Matsushita, K. (743) 362)

Delayed nonmatching-to-sample
Visual recognition memory; Cognitive impairment; NMDA receptor; Glycine receptor; HA-966; MK-801; Monkey (Matsuoka, N. (731) 72)

Delayed non-match-to-sample
Anabolic steroid; Radial-arm maze; 17α-Methyltestosterone; Methandrostenolone; Testosterone cypionate (Smith, S.T. (737) 313)

Delirium
Alzheimer's disease; Melatonin; Circadian rhythm; Suprachiasmatic nucleus; Sleep–wake cycle; Pineal gland; Light–dark cycle (Uchida, K. (717) 154)

Dementia
Neurodegeneration; Microglia; Senile plaque; Lipoprotein associated coagulation inhibitor; Proteinase inhibitor (Hollister, R.D. (728) 13)

Astrocyte; Microglia; Mouse; LP-BM5 virus; AIDS (Kustova, Y. (742) 271)

Dendrite
Microtuble-associated protein 2; β-Amyloid precursor protein; β-Amyloid; MK-801; Traumatic brain injury; Axon (Lewén, A. (719) 161)

Melanocortin; Corticospinal tract; Cortex; Cell culture; Neuron polarity; Axon; Trophic factor (Joosten, E.A.J. (736) 91)

Dendritic branching
Sensorimotor cortex; Dendritic spine; Use-dependent neural growth; Astrocyte; Microglia; Glial fibrillary acidic protein; Postural asymmetry (Forgie, M.L. (710) 249)

Corticospinal neuron; Plasticity; Recovery of function; Motor cortex; Skilled forelimb use in rat (Prusky, G. (714) 1)

Dendritic morphology
Thalamus; Rat; Thalamic reticular nucleus (Ohara, P.T. (731) 236)

Dendritic release
Autoreceptor; Neuroleptic; Midbrain; Morphology (Pucak, M.L. (713) 44)

Dendritic shrinkage
Dye coupling; Hippocampus; Tetanus toxin; Epilepsy; Morphology; Biocytin (Colling, S.B. (741) 38)

Dendritic spine
Sensorimotor cortex; Dendritic branching; Use-dependent neural growth; Astrocyte; Microglia; Glial fibrillary acidic protein; Postural asymmetry (Forgie, M.L. (710) 249)

Autosomal recessive; Ataxic mutant; Dilute-opisthotonus rat; Endoplasmic reticulum; Inositol 1,4,5-Trisphosphate receptor; Purkinje cell abnormality (Dekker-Ohno, K. (714) 226)

Calmodulin; Golgi complex; Mitochondria; PKC; RC3 (Neuner-Jehle, M. (733) 149)

Denervation
Phosphorylation; Tyrosine; Phosphatase; Neuromuscular; Synapse; Synaptogenesis (Tanowitz, M. (712) 299)

Dense-core vesicle
Opioid peptide; Dentate gyrus; Mossy fiber; Electron microscopy; Learning and memory (Commons, K.G. (724) 1)

Densitometry
Nitric oxide synthase; Immunocytochemistry; Histochemistry; CA1; Long-term potentiation (Vaid, R.R. (733) 31)

Dental pulp
Aromatic L-amino acid decarboxylase; Catechol-*O*-methyltransferase; DOPA; Human (Nomura, T. (735) 314)

Dentate
Fastigial; Learning; Rehabilitation (Amrani, K. (740) 275)

Dentate gyrus
GAP-43; Kainate; Astrocyte; Ibotenic acid; Glial fibrillary acidic protein (GFAP); Hippocampus; CA3 (Meberg, P.J. (706) 217)

Colchicine; Hippocampus; Neocortex; Olfaction (Heale, V.R. (712) 213)

Alcohol; SCH-23390; SKF-38393; Paired-pulse responses; Lateral septal nucleus (Criado, J.R. (716) 192)

Benzodiazepine; Chlordiazepoxide; Flumazenil; Medial septum; Hippocampus; Field potential; Synaptic plasticity; Long-term potentiation (Stackman, R.W. (717) 12)

Glial fibrillary acidic protein; Vimentin; Immunohistochemistry; Hilus; Seizure (Stringer, J.L. (717) 147)

Basolateral amygdala; Field potential; Paired-pulse facilitation; Long-term potentiation; Amygdalo-hippocampal interaction; Anesthetized rat (Ikegaya, Y. (718) 53)

Electroconvulsive seizure; Electroconvulsive stimulation; c-*fos*; Neuropeptide Y; Somatostatin (Woldbye, D.P.D. (720) 111)

Hippocampus; Paired pulse inhibition; γ-Aminobutyric acid (Burdette, L.J. (722) 39)

Opioid peptide; Dense-core vesicle; Mossy fiber; Electron microscopy; Learning and memory (Commons, K.G. (724) 1)

Glutamate; NMDA receptor; Nitric oxide; Hippocampus; High-performance liquid chromatography; Release; Guinea pig (Nei, K. (728) 105)

5-HT_{1A} receptor; Glutamate; NMDA receptor; HPLC; Release (Matsuyama, S. (728) 175)

Serotonin; Interneuron; Tenia tecta; Septum; Amygdala (Morales, M. (731) 199)

Acetylcholine; Behavioral inhibition; Freezing; Hippocampus; Presynaptic muscarinic receptor; Oxotremorine; Septohippocampal cholinergic system; Preweanling rat; Ultrasonic vocalization (Takahashi, L.K. (731) 230)

In vivo; Paired-pulse depression; Kindling; MK-801; *N*-Methyl-D-aspartate; γ-Aminobutyric acid (Gilbert, M.E. (732) 201)

Long-term potentiation; Lead; Hippocampus; Rat; Neurotoxicity; Learning and memory (Gilbert, M.E. (736) 118)

Chronic lead; Glutamate release; GABA release; Calcium; Microdialysis; Paired-pulse facilitation; Paired-pulse depression; MK-801 (Lasley, S.M. (736) 125)

Excitatory amino acid receptor; Ammon's horn; Mossy fiber (Blümcke, I. (736) 217)

Hippocampal EEG seizure; Wet dog shakes; Neuropeptide Y; Somatostatin; Subiculum (Woldbye, D.P.D. (737) 162)

Dentate gyrus granule cell
Hippocampal slice; Increased EPSP; Whole-cell recording; Time constant; Pilocarpine; Epilepsy (Isokawa, M. (718) 169)

Dentatorubral-pallidoluysian atrophy
CAG trinucleotide repeat; Two-dimensional electrophoresis; Isoelectric variant; Lymphoblastoid cell; Post-translational modification (Yazawa, I. (732) 154)

2-Deoxyglucose
Olfactory system; c-*fos*; Neuronal plasticity; Noradrenaline; Acetylcholine (Sallaz, M. (721) 66)

Morphine; Glucose utilization; Locus coeruleus; Amygdala; Metabolic rate (Kraus, M.A. (724) 33)

Hyperglycemia; Hypothalamus; Microdialysis; Acetylcholine; Norepinephrine; Pentobarbital; 6-Hydroxydopamine (Takahashi, A. (734) 116)

Gold thioglucose; Ventromedial nucleus; Food intake; Glucose; Cholecystokinin (Bergen, H.T. (734) 332)

Deoxyglucose
Kindling; Amygdala; Thalamus; Fatty acid; Palmitate; Lipid; Brain; Plasticity; Seizure; Phospholipid; Phosphatidylcholine; Activation (Arai, T. (743) 131)

2-Deoxyglucose autoradiography
Basal ganglia; Levodopa; Regional cerebral glucose utilization (Trugman, J.M. (725) 177)

Dependence
Opioid; Phosphorylation; Tolerance; cAMP; Opiate receptor; Protein kinase C (Wang, L. (723) 61)

Ethanol; Tolerance; Serotonin; Afterhyperpolarization; 5-HT_{1A} receptor; 5-HT_4 receptor (Lau, A.H.L. (731) 12)

Tolerance; $GABA_B$ receptor; Hippocampus; CA1 pyramidal neuron; CA3 pyramidal neuron; Intracellular electrophysiological recording (Frye, G.D. (735) 239)

Dephosphorylation
Calcineurin; Cyclosporin A; Immunosuppressant; Memory; Phosphatase (Bennett, P.C. (730) 107)

Protein phosphatase; τ Protein; Schizophrenia; Neurofibrillary tangle; Alzheimer's disease (Gong, C.-X. (741) 95)

Dephosphosphorylation
Glial fibrillary acidic protein; Okadaic acid; Microcystin-LR; Calyculin A; Hippocampal slice (Vinadé, L. (732) 195)

Depolarization
t-ACPD; L(+)-2-amino-3-phosphonoproprionic acid; (+)-α-methyl-4-carboxyphenyl-glycine; Carbachol; Hyperpolarization (Erdemli, G. (723) 1)

Oxygen radical; Nerve growth factor; Neuronal death; Chromatin condensation (Kubo, T. (733) 175)

Depolarizing postsynaptic potential
Dopamine; 4-Aminopyridine; Cesium; Tetraethylammonium (Altemus, K.L. (718) 212)

Deposit
Peripheral nerve; Leupeptin; Aprotinin; APP; Serpin; Schwann; Anchoring junction; Desmosome; Alzheimer (Moreno, R.D. (718) 13)

Depotentiation
N-Methyl-D-aspartate (NMDA) receptor; Long-term potentiation; FK506; Calcineurin; Cyclosporin A; Synaptic plasticity; Hippocampus (Lu, Y.-F. (729) 142)

Deprenyl
Astrocyte, Type 1; Monoamine oxidase expression; Monoamine oxidase (MAO) A mRNA; Monoamine oxidase (MAO) B mRNA; Dexamethasone; RU 486; Actinomycin D; Cycloheximide (Carlo, P. (711) 175)

Monoamine oxidase; Dopamine; L-DOPA; Substantia nigra; Striatum; Parkinsonism; Monkey (Di Monte, D.A. (738) 53)

L-Deprenyl
Mesencephalic cells; PC12; 1-Methyl-4-phenyl pyridinium ion (MPP^+) (Vaglini, F. (741) 68)

Depression
Lipopolysaccharide; Saccharin preference; Sexual behavior; Anorexia; Body weight; Social exploration; Open-field test; Tricyclic antidepressant; Imipramine (Yirmiya, R. (711) 163)

Aging; Dexamethasone; Glucocorticoid; Serotonin transporter (Fumagalli, F. (719) 225)

Locus coeruleus; Corticotropin-releasing factor; Stress; Electrophysiology; Desensitization; Blood pressure (Conti, L.H. (722) 19)

Phosphoinositide; Inositol phosphate; G-protein; Signal transduction (Pacheco, M.A. (723) 37)

Depression model
$GABA_B$ receptor; $GABA_A$ receptor; Learned helplessness; Rat (Nakagawa, Y. (741) 240)

1-Desamino-8-D-arginine vasopressin
Antidiuretic hormone; Brain vasopressin receptor; Vasopressin antagonist; OPC-31260; Increased plasma osmolality (Liu, H.-W. (719) 14)

Descending modulation
Thalamic nucleus submedius; Spinal cord dorsal horn; Nociceptive neuron; Rat (Zhang, Y.-Q. (737) 16)

Descending pain facilitation
Hyperalgesia; Mustard oil; Neurotensin; Cholecystokinin; Rostral ventromedial medulla (Urban, M.O. (737) 83)

Descending tract
Acetylcholinesterase; Enzyme histochemistry; Motoneuron; Spinal cord injury (Nacimiento, W. (714) 177)

Desensitization
Olfaction; Adaptation; Habituation; Chemosensory event-related potential (Hummel, T. (717) 160)

Ethanol; Physical dependence; $GABA_A$ receptor; Lanthanum; Zinc; Dissociated neuron; Septum (Frye, G.D. (720) 101)

Locus coeruleus; Corticotropin-releasing factor; Stress; Electrophysiology; Depression; Blood pressure (Conti, L.H. (722) 19)

Ethanol withdrawal; Neuronal firing; γ-Aminobutyric acid; Clonic seizure; Inferior colliculus (N'Gouemo, P. (724) 200)

AMPA; Cyclothiazide; Edema; Purkinje cell; Cerebellum; Non-NMDA (Strahlendorf, J.C. (729) 197)

FOS immunoreactivity; Paraventricular nucleus; Supraoptic nucleus; Caudate putamen (Chang, S.L. (736) 227)

Desipramine
$GABA_B$ receptor; $GABA_A$ receptor; Learned helplessness; Rat (Nakagawa, Y. (728) 225)

Galanin receptor antagonist; Clonidine; Dipyrone; Fenfluramine; Antinociception (Selve, N. (735) 177)

Desmosome
Peripheral nerve; Leupeptin; Aprotinin; APP; Serpin; Deposit; Schwann; Anchoring junction; Alzheimer (Moreno, R.D. (718) 13)

Devazepide
Vagus nerve; Nucleus tractus solitarius; Ventromedial hypothalamic nucleus; Area postrema; Pancreas; Ovariectomy; Cholecystokinin receptor; L365,260; Food intake (Geary, N. (179) 179)

Development
Hypoxia-ischemia; Striatum; Acetylcholine; Cholinergic; Microdialysis (Oo, T.F. (706) 145)

Ca^{2+}/calmodulin-dependent protein kinase I; Northern blot analysis; In situ hybridization; Rat brain (Sawamura, Y. (706) 259)

Alzheimer's disease; Acetylcholine; Arecoline; Atropine; Consolidation; Memory; Passive-avoidance response; Pilocarpine; Scopolamine (Smith, R.D. (707) 13)

Apoptosis; Neuron; Glial cell; Immunohistochemistry; Western blotting (Mizuguchi, M. (712) 281)

$GABA_A$; Neurotransmitter receptor subtype; Innervation; Cerebellar granule neuron (Ueno, S. (714) 49)

Retina; Tissue culture; Neurite outgrowth; Regenerative failure (Bates, C.A. (714) 65)

Cocaine; Tyrosine hydroxylase; Cortex; Catecholamine (Wang, X.-H. (715) 221)

Immediate early gene; Learning; Olfactory preference; Immunohistochemistry; Olfactory bulb (Woo, C.C. (716) 149)

Rat; In situ hybridization; Photoreceptor; Rod; Inner segment; Dark-rearing (Hoover, F. (718) 124)

Neuronatin; Chromosome 20; Proteolipid protein; Brain; Phospholamban; PMP1; Cation channel; ATPase; Neural restrictive silencer element (Dou, D. (723) 8)

Ontogeny; Membrane binding; NMDA receptor; Agonist; Antagonist; Heterogeneity (Enomoto, R. (723) 100)

Neural retina; Ganglion cell; Rod photoreceptor; bFGF; Retinoic acid; Opsin; Tissue culture (Zhao, S. (723) 169)

Superior cervical ganglion; Neurogenesis; Neurotrophin; Neurotropic; Transgenic mouse (Davis, B.M. (724) 47)

Rat; Maternal deprivation; Suckling; Hippocampus; Glucocorticoid receptor; Mineralocorticoid receptor; Gene expression (Vázquez, D.M. (731) 79)

Striate cortex; Microvascularization; Butyryl cholinesterase; Histochemistry (Argandoña, E.G. (732) 43)

Zif268; Immediate early gene; Visual system; Ocular dominance column; Plasticity; Primate (Silveira, L.C.L. (732) 237)

Muscarinic receptor; Nicotinic receptor; Brain; Chronic treatment; Nicotine (Zhu, J. (732) 257)

NMDA receptor; Glycine binding; Hypoxia; Brain; Fetus (Razdan, B. (733) 15)

Visual system; Projection neuron; Optic tectum; Acetylcholine; Cuneiform nucleus (Banfro, F.T. (733) 273)

Cyclin; Cyclin-dependent kinase; Plasticity; Cell cycle; Tau protein (Matsushita, M. (734) 319)

Myelin associated glycoprotein; Myelin basic protein; Neuron–glia cell adhesion molecule; Lateral superior olive; Auditory; MAG; MBP; L1 (Hafidi, A. (736) 35)

Neuronatin; PC12; Nerve growth factor; Brain (Joseph, R. (738) 32)

Striate cortex; Lateral geniculate nucleus; Adrenergic receptor; Noradrenaline; Synaptic plasticity (Muguruma, K. (740) 131)

Phospholipid; Glutamate receptor; Hippocampus (Gagné, J. (740) 337)

Brain injury; Hypoxia; Ischemia; Therapy; Neonate; Hypocalcemia (Sola, A. (741) 294)

Monoamine; Serotonin; Dopamine; Norepinephrine; Salmon (Ebbesson, S.O.E. (742) 339)

Developmental lead-exposure
Hemicholinium-3 binding; Choline acetyltransferase; Muscarinic receptor; Tyrosine hydroxylase; Septum; Hippocampus; Fimbria-fornix transection; Superior cervical ganglionectomy (Bielarczyk, H. (708) 108)

Developmental neurotoxicity
Aggregating brain cell culture; Mercury chloride; Monomethylmercury chloride; Microglia; Glial fibrillary acidic protein; Cell type-specific enzyme (Monnet-Tschudi, F. (741) 52)

Dexamethasone
Stria terminalis; Amygdala; Memory modulation; Adrenalectomy; Inhibitory avoidance; Water maze (Roozendaal, B. (709) 243)

Astrocyte, Type 1; Monoamine oxidase expression; Monoamine oxidase (MAO) A mRNA; Monoamine oxidase (MAO) B mRNA; RU 486; Deprenyl; Actinomycin D; Cycloheximide (Carlo, P. (711) 175)

Aging; Depression; Glucocorticoid; Serotonin transporter (Fumagalli, F. (719) 225)

Alzheimer's disease; β-Amyloid; Interleukin-1; Inflammation; Indomethacin; Chloroquine (Fagarasan, M.O. (723) 231)

Amino acid; Hippocampus; Striatum; Population spike; Microdialysis; ACTH; Corticosterone (Ábrahám, I. (733) 56)

Nicotine; Neurotoxicity; Hippocampus; Kainic acid (Semba, J. (735) 335)

Cerebral ischemia; Hypoxia; Neuroprotection; Glucocorticoid; RU38486; Corticosterone; Infant (Tuor, U.I. (743) 258)

Dexfenfluramine
Aspartate; Capillary electrophoresis; Laser-induced fluorescence detection; Frontal cortex; GABA; Glutamate; In vivo brain microdialysis; Serotonin (Rocher, C. (737) 221)

Dextran-conjugated-rhodamine tracer
Nucleus accumbens; Subpallidal area; Ventral tegmental area; Single unit recording; Limbic-motor integration (Wu, M. (740) 151)

Dextran-tetramethylrhodamine
Thalamus; Retrograde tracing; Anterograde tracing; Biocytin; Teleostei; Gymnotiformes (Zupanc, G.K.H. (739) 201)

Dextromethorphan
Behavior; Cerebral ischemia; Glutamate; Rat (Block, F. (741) 153)

Diabetes
Opioid receptor; Medial preoptic area; Habenula (Wolinsky, T.D. (738) 167)

Rat; Brain; Epinephrine; α-Methyl DOPA; α-Methyl norepinephrine; Catecholamine (Gbadebo, T.D. (739) 210)

Diet-induced obesity; Diet-resistant; ATP-sensitive K^+ channel; Sulfonylurea receptor; Glucose (Levin, B.E. (739) 293)

Diacylglycerol
Brain injury; Fluid percussion; Protein kinase C (Padmaperuma, B. (714) 19)

Traumatic brain injury; Fluid percussion; Phosphatidylinositol bisphosphate; Free fatty acid; Arachidonic acid; Scopolamine; Muscarinic; Rat (Lyeth, B.G. (742) 63)

Diagonal band of Broca
Choline acetyltransferase; Septum; Nucleus basalis; Striatum; Alzheimer's disease (Gibbs, R.B. (720) 61)

Dialysis
Na,K-ATPase; Noradrenaline; Non-exocytotic release; Ouabain; Pargyline (Yamazaki, T. (737) 343)

3,4-Diaminopyridine
Dopamine release; Acetylcholine release; Rabbit caudate nucleus; Nitric oxide; Autoreceptor; Opioid receptor; Adenosine receptor (Ries, V. (743) 303)

Diazepam
Stress; Glutamate; Prefrontal cortex; γ-Aminobutyric acid; Dopamine; Microdialysis (Karreman, M. (716) 180)

Brainstem; Taste; Appetite; Palatability; Food intake; Feeding; Benzodiazepine; Hyperphagia; Cerebral ventricle; Hindbrain; Anxiolytic (Peciña, S. (727) 22)

Diazoxide
Alzheimer's disease; Dichlorofluorescin; Hydrogen peroxide; Levochromakalim; Pinacidil (Goodman, Y. (706) 328)

Dichlorodiphenyltrichloroethane
Pyrethroid; Tetramethrin; Fenvalerate; Sodium channel; Dorsal root ganglion (Song, J.-H. (708) 29)

Dichlorofluorescin
Alzheimer's disease; Diazoxide; Hydrogen peroxide; Levochromakalim; Pinacidil (Goodman, Y. (706) 328)

2,7-Dichlorofluorescin diacetate
Aluminum; Confocal laser scanning microscopy; Laser microprobe mass spectrometry; Hippocampal neuron; Iron; Oxidative stress; Reactive oxygen species (Xie, C.X. (743) 271)

5,7-Dichlorokynurenate
N-Methyl-D-aspartate receptor; Glutamate; Glycine; Single channel; Competitive antagonism; Coagonist hypothesis; Excitatory amino acid (Currás, M.C. (740) 27)

Diclofenac
Interleukin-1β; Hyperalgesia; α-Melanocyte-stimulating hormone; Prostaglandin; Cytokine; Central nervous system (Oka, T. (736) 237)

Diencephalon
Vasoactive intestinal peptide; VIP receptor; REM sleep deprivation; Stress; Brainstem (Jiménez-Anguiano, A. (728) 37)

Methamphetamine; Histamine; Histidine decarboxylase; Cortex; Striatum; Rat (Ito, C. (734) 98)

Diet-induced obesity
Diet-resistant; ATP-sensitive K^+ channel; Sulfonylurea receptor; Glucose; Diabetes (Levin, B.E. (739) 293)

Diet-resistant
Diet-induced obesity; ATP-sensitive K^+ channel; Sulfonylurea receptor; Glucose; Diabetes (Levin, B.E. (739) 293)

Diet restriction
Adrenergic receptor; Hypothalamus; Septal-hippocampal pathway; Tyrosine; Cognitive function; Mouse; Eight-arm maze; Anorexia nervosa (Avraham, Y. (732) 133)

Differential marker
Ganglioside; Immunocytochemistry; Monoclonal antibody; Neuron (Kawashima, I. (732) 75)

Differentiation
Interleukin-6 receptor; Gp 130; *c-fos*; Reverse transcriptase–polymerase chain reaction; Hybridization, in situ; PC12 cell; Sympathetic neuron; Tumor necrosis factor α; Glucocorticoid (März, P. (706) 71)

Cholinergic system; Protease; Growth factor; Protease activated receptor (Debeir, T. (708) 159)

Varicosity; PC12 cell; Exocytosis; Nerve growth factor; Amperometric detection; Microelectrode (Zerby, S.E. (712) 1)

Synaptogenesis; Neural crest; Tyrosine hydroxylase; *N*-Methyl-D-aspartate; Glutamate; Receptor; Gut (Burns, G.A. (718) 117)

Cyclic adenosine 3′, 5′-monophosphate; Forskolin; Galactocerebroside; Proliferation (Yamada, H. (719) 187)

Aldosterone; Ru28362; Hybridization, in situ; mRNA; Tissue culture (Nishi, M. (722) 190)

Opiate; Intracellular Ca^{2+}; Fura-2; Synergy; Synchronization (Sarne, Y. (722) 203)

Cell line; Dopamine; Glial cell; Neurotropic factor (Heller, A. (725) 132)

Diffuse Lewy body disease
Oxidative stress; Advanced glycation end-product; Parkinson's disease; Immunocytochemistry (Castellani, R. (737) 195)

Diffuse plaque
Dog; Aging; Morphometry; Cluster analysis (Węgiel, J. (728) 20)

Diffusion
Recombinant human nerve growth factor; Controlled release; Brain interstitium; Diffusion; Elimination; Polymer (Krewson, C.E. (727) 169)

Recombinant human nerve growth factor; Diffusion; Controlled release; Brain interstitium; Elimination; Polymer (Krewson, C.E. (727) 169)

Diffusion-weighted MRI
Focal cerebral ischemia; Calcium channel; ω-Conopeptide; SNX-111; Excitotoxicity; Rat (Yenari, M.A. (739) 36)

Digastric EMG
Manual acupuncture; Capsaicin; DNIC; Polymodal receptor; Rat; C fiber; Jaw opening reflex (Okada, K. (740) 201)

Digital imaging microscopy
Intracellular Ca^{2+}; Intracellular Mg^{2+}; Voltage-sensitive calcium channel; Hippocampal neuron (Zhang, A. (728) 204)

Dihydro-beta-erythroidine
Nicotinic antagonist; Morris water maze; Radial arm maze; Spatial memory; Rat (Curzon, P. (714) 185)

6,7-Dihydroxyisoquinolinium ion
1(*R*); 2(*N*)-Dimethyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline (*N*-methyl-(*R*)-salsolinol); Animal model; Parkinson's disease; Dopamine; Tyrosine hydroxylase (Naoi, M. (709) 285)

3,4-Dihydroxyphenylacetic acid
3-Methoxy-4-hydroxyphenylethylene glycol; Pentazocine (Eaton, M.J. (733) 162)

3,4-Dihydroxyphenylglycolaldehyde
Neurotoxin; Catecholamine; MAO-A metabolite; PC-12 cell (Burke, W.J. (722) 232)

Dihydroxyphenylpyruvic acid
L-DOPA; D-DOPA; Parkinson's disease; Cerebral microdialysis; Catecholamine metabolism (Brannan, T. (718) 165)

5,7-Dihydroxytryptamine
5-HT_{1B} receptor; 5-$HT_{1D\beta}$ receptor; Serotonin; Serotonin transporter; Serotonin receptor; Citalopram; Dorsal raphe; Autoreceptor (Neumaier, J.F. (722) 50)

Serotonin; Nonphotic; Suprachiasmatic nucleus, activity (Bobrzynska, K.J. (741) 205)

Di-I
Luteinizing hormone-releasing hormone; Gonadotropin-releasing hormone; Olfactory marker protein; Peripherin; Olfactory bulb; Rat; Immunocytochemistry (Santacana, M. (734) 337)

DiI
Taste; Gustatory; Anatomy; Biotinylated dextran; Nucleus tractus solitarius; Projection neuron (Williams, J.B. (737) 231)

Diltiazem
Morphine; Butorphanol; Physical dependence; Glutamate; Locus coeruleus; Microdialysis; L-type Ca^{2+} channels (Tokuyama, S. (722) 212)

Dilute-opisthotonus rat
Autosomal recessive; Ataxic mutant; Dendritic spine; Endoplasmic reticulum; Inositol 1,4,5-Trisphosphate receptor; Purkinje cell abnormality (Dekker-Ohno, K. (714) 226)

Dimethylsulfoxide
Carotid body; Glomus cell; Intercellular coupling; Calcium; A23187; BAPTA/AM (Abudara, V. (725) 125)

1,1′-Dioctadecyl-3,3,3′,3′-tetramethylindocarbocyanine perchlorate (DiI)
Sympathetic preganglionic neuron (SPN), visually identified; Whole-cell slice patch delayed rectifier current; Ca^{2+}-dependent current; A-current; Inward rectifying current (Miyazaki, T. (743) 1)

Diprenorphine
Aging; Hippocampus; Opioid; Receptor binding; Enkephalin (Nagahara, A.H. (707) 22)

Dipyrone
Non-steroidal antiinflammatory drug; Naloxone; Opiates; Periaqueductal gray; Off-cell; On-cell; Antinociception; Tail flick (Tortorici, V. (725) 106)

Galanin receptor antagonist; Clonidine; Desipramine; Fenfluramine; Antinociception (Selve, N. (735) 177)

Discrimination
Limbic thalamus; Cingulate cortex; Single-unit activity; Avoidance learning; Pre-motor neuronal activity (Kubota, Y. (721) 22)

Discrimination learning
Chronic hypoperfusion; Ligation of bilateral common carotid artery; Muscarinic acetylcholine receptor; Incomplete ischemia; Wistar rat; Rarefaction; Cerebrovascular type dementia (Tanaka, K.-i. (729) 55)

Discriminative stimulus
Phencyclidine; Nitric oxide; N^{ω}-Nitro-L-arginine methyl ester; 7-Nitroindazole; Drug discrimination; Operant behavior; Catalepsy (Jewett, D.C. (715) 25)

Discriminatory avoidance learning
Long-term potentiation; Hippocampus; CA1 (Izaki, Y. (723) 162)

Disector
Cerebral ischaemia; Hippocampus; Synapse density; Chick (Horner, C.H. (735) 354)

Disinhibition
Paroxysmal discharge; Population spike; Paired pulse depression; 2-Amino-5-phosphonovalerate; Excitability (Masukawa, L.M. (721) 132)

Disk shedding
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Dizocilipine maleate
N-Methyl-D-aspartate antagonist; MK-801; Cingulate cortex; Neurotoxicity; Neuropathology; Spatial learning and memory; Sensorimotor; Activity; Mouse (Wozniak, D.F. (707) 165)

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N-Methyl-D-aspartate; Quinolinic acid; Excitotoxicity; Apoptosis; Neurodegeneration; Huntington's disease (Qin, Z.-H. (725) 166)

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Dog; Serotonin; Cerebrospinal fluid; 5-HIAA; Aggression (Reisner, I.R. (714) 57)

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L-DOPA
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D-DOPA; Dihydroxyphenylpyruvic acid; Parkinson's disease; Cerebral microdialysis; Catecholamine metabolism (Brannan, T. (718) 165)

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Monoamine oxidase; Dopamine; Substantia nigra; Striatum; Parkinsonism; Deprenyl; Monkey (Di Monte, D.A. (738) 53)

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L-DOPA methyl ester
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Dorsal root ganglion neuron
Neurite sprouting; Nerve cell culture; HPC-1; Syntaxin; Antisense oligonucleotide; Retinal ganglion cell (Yamaguchi, K. (740) 185)

Action potential shortening vs. prolongation; μ-/δ-/κ- vs. ϵ-opioid receptors; β-Funaltrexamine; Naltrindole; Nor-binaltorphimine (Crain, S.M. (741) 275)

Dorsal root stimulation
Substance P; Glutamate; *N*-Methyl-D-aspartate; Tachykinin; Slow excitatory transmission; Nociception; Wind-up (Baranauskas, G. (738) 329)

Dorsal vagal complex
Noradrenergic A_2 cell group; Adrenergic C_2 cell group; Angiotensin II; Circumventricular organ; Baroreceptor reflex; Central cardiovascular regulation (Ciriello, J. (726) 227)

Dorsomedial frontal cortex
Saccade; Remembered target; Frontal eye field; Electrical stimulation; Rhesus monkey (Tehovnik, E.J. (727) 221)

Dorsomedial hypothalamus
Stress; Paraventricular nucleus; Heart rate; Blood pressure; Muscimol; Adrenocorticotrophic hormone (ACTH) (Stotz-Potter, E.H. (742) 219)

Dose response
Methylphenidate; Ritalin; Psychomotor stimulant; Motor activity; Behavior (Gaytan, O. (727) 13)

Dose–response relationship
Sensitization; Priming; Apomorphine (Gancher, S. (729) 190)

Dot-blot
NACP; NAC; Synaptic pathology; Early Alzheimer's disease neurodegeneration; Synaptic protein; Synuclein (Iwai, A. (720) 230)

Double immunohistochemical labeling
Calcium binding protein; Calretinin; Hybridization histochemistry, in situ; Glutamate receptor; Reticular formation (Winsky, L. (741) 123)

Double immunostaining
γ-Aminobutyric acid; Neurotensin; Synapse; Rat; Preembedding; Postembedding (Wang, Q.-P. (730) 118)

Double-labeling
Correlation; Ipsilateral projection; Lateral geniculate nucleus; Superior colliculus; Fluorescent tracer; Albino rat (Farid Ahmed, A.K.M. (706) 163)

Double labeling
Excitatory amino acid; Immunogold silver staining; Nitric oxide; Retina (Zhang, C. (729) 205)

Auditory physiology; Fos immunoreactivity; Horseradish peroxidase; Pontine nucleus (Qian, Y. (731) 241)

Fluoro-Green; Fluoro-Red; Retrograde fluorescent tracer; Neuroanatomical study (Dong, K. (736) 61)

Double labelling immunofluorescence
Peptidergic innervation; Coexistence; Multiple dye filter; Carotid labyrinth (Kusakabe, T. (735) 307)

Double pre-embedding immunocytochemistry
Neurotensin; Tyrosine hydroxylase; Electron microscopy; Mediobasal hypothalamus; Guinea pig (Marcos, P. (715) 63)

Doxorubicin
Adriamycin; Motoneuron; Aging; Neurotoxicity; Equivalent cylinder; Cell size; Intracellular recording (Liu, R.-H. (738) 121)

DPIP
NADPH-diaphorase; Enzyme histochemistry; Brain; Infrared; Snake (Jiang, P.-J. (713) 168)

D_1 receptor
Dopamine; [^{3}H]SCH23390; [^{3}H]Spiperone; Binding; Insect; Brain (Kokay, I.C. (706) 47)

Δ^9-Tetrahydrocannabinol; Fos protein; SCH-23390; Rat (Miyamoto, A. (710) 234)

D_2 receptor
Cocaine; Dopamine transporter; Quinpirole; Apomorphine (Little, K.Y. (742) 313)

Drinking
Feeding; Restraint; Stress; Sensitization; Hypothalamic–pituitary–adrenal axis; Corticosterone; Adrenal hormone; Glucocorticoid; Rat (Badiani, A. (710) 35)

Angiotensin receptor; Hypothalamus; Circumventricular organ; Subfornical organ; Adrenal gland; DUP-753; PD-123319; CGP-42112A; Domestic mallard; Bird; Osmoregulation (Schäfer, F. (711) 118)

Drinking behavior
Atrial natriuretic peptide; c-*fos*; Immediate–early gene; C-type natriuretic peptide; Angiotensin II (Zhu, B. (734) 55)

Drosophila melanogaster
GABA receptor; RDL (resistant to dieldrin) subunit; THIP (4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3-ol); ZAPA (*Z*-3-[(aminoiminomethyl)thio]prop-2-enoic acid) (Matsuda, K. (739) 335)

Drug abuse
Opioid receptor; Cell division; Central nervous system maturation; Neuroglia; Endogenous opioid system; U69593; U50488H; *Nor*-binaltorphimine; Fura-2; Intracellular calcium; Nifedipine; Thapsigargin (Gurwell, J.A. (737) 175)

Cell division; Endogenous opioid system; PL017; μ Opioid receptor immunocytochemistry; Neural development (Knapp, P.E. (743) 341)

Drug addiction
Tyrosine hydroxylase; Cholecystokinin; Ventral tegmental area (Harris, H.W. (706) 1)

Drug bioavailability
Cocaethylene; Cocaine; Sensitization; Locomotor activity (Horger, B.A. (733) 133)

Drug discrimination
Phencyclidine; Nitric oxide; N^{ω}-Nitro-L-arginine methyl ester; 7-Nitroindazole; Discriminative stimulus; Operant behavior; Catalepsy (Jewett, D.C. (715) 25)

Drug interaction
EL mouse; Epilepsy; Antiepileptic drug; Zonisamide; Serum concentration; Brain concentration (Nagatomo, I. (731) 190)

Cocaine; Lidocaine; Local anesthetics; Seizure (Barat, S.A. (742) 157)

Drug resistance
Hair cell; Regeneration; Aminoglycoside; Ototoxicity; Chicken (Hashino, E. (720) 172)

Drug self-administration
Ibogaine; Noribogaine; Morphine; Cocaine; Microdialysis; Dopamine (Glick, S.D. (713) 294)

Ibogaine; *Iboga* alkaloid; 18-Methoxycoronaridine; Morphine; Cocaine (Glick, S.D. (719) 29)

Drug tolerance
Serotonin; Anorectic agent; Paraventricular hypothalamus; Cholecystokinin; Escalating dose regimen (Li, B.-H. (728) 188)

DSP-4
Hippocampus; Monoamine; Odor preference; Olfactory bulb; Olfactory learning; Social stress (Cornwell, C.A. (711) 26)

Dopamine; Methamphetamine; Neurotoxic threshold; Nigrostriatal pathway; Norepinephrine (Fornai, F. (735) 349)

NA-LC system; Sleep deprivation; Sleep recovery; Methylamphetamine; Water tank (Del C. González, M.M. (740) 215)

Dual band filter
Vomeronasal organ; Trigeminal ganglion; Sphenopalatine ganglion; Nitric oxide synthase; Neuropeptide; Coexistence; Mouse (Matsuda, H. (712) 35)

Dual innervation
Galanin; Calcitonin gene-related peptide; Esophagus; Rat; Immunohistochemistry (Kuramoto, H. (734) 186)

DUP-753
Angiotensin receptor; Hypothalamus; Circumventricular organ; Subfornical organ; Adrenal gland; PD-123319; CGP-42112A; Domestic mallard; Drinking; Bird; Osmoregulation (Schäfer, F. (711) 118)

Dye coupling
Dendritic shrinkage; Hippocampus; Tetanus toxin; Epilepsy; Morphology; Biocytin (Colling, S.B. (741) 38)

Dynamic regulation
Dopamine; Locomotion; Treadmill; Striatum; Neural transplantation; 6-Hydroxydopamine; In vivo microdialysis (Hattori, S. (710) 45)

Dynamics
Transmitter release; Neuromuscular junction; MEPPs (Kriebel, M.E. (729) 228)

Dynorphin(1–8)
Nociception; Antinociception; Thermal stimulation; Spinal cord; Tachykinin (Zachariou, V. (706) 80)

Dynorphin
Morphine; Naloxone; Amino acid; Dopamine; Microdialysis; Rat (You, Z.-B. (710) 241)

Haloperidol; Stereotypy; Enkephalin; Somatostatin; Substance P (Marin, C. (731) 57)

Dynorphin $A_{(1-8)}$
Peripheral inflammation; Spinal cord; Release; Antibody microprobe (Riley, R.C. (710) 131)

Dynorphin A
Hibernation; Opioid; β-Endorphin; Septum (Cui, Y. (710) 271)

Dysgenesis
Transgenic insertion mutation; Neuronal migration; Cortical ectopia; Mouse; *Perinatal lethality*; Microgyria; Cerebral cortex (Beier, D.R. (727) 196)

Dyskinesia
Autoradiography; Basal ganglia; Dopamine D_3 receptor; L-DOPA; Marmoset; MPTP; Psychosis (Hurley, M.J. (709) 259)

Parkinson's disease; Dopamine receptor; MPTP; Tolerance; Monkey; Catecholamine (Goulet, M. (719) 129)

Parkinson's disease; MPTP; Cabergoline; $GABA_A$ receptor; Dopamine D_2 receptor (Grondin, R. (735) 298)

Dyslexia
Autoimmunity; Cortex; Cortical development; Enriched environment; Ectopia; Hebb-Williams maze; Lashley maze; Morris maze; Neuronal migration; Reference memory (Boehm, G.W. (726) 11)

Dystrophic neurite
Paired helical filament; Neurofilament; Hyperphosphorylation; Senile plaque; Neuropathology; Alzheimer's disease (Su, J.H. (739) 79)

Constructional apraxia; Praxis; AT8; Neurofibrillary tangle; β-Amyloid; Occipital cortex; Parietal lobe (Nielson, K.A. (741) 284)

E

Early Alzheimer's disease neurodegeneration
NACP; NAC; Dot-blot; Synaptic pathology; Synaptic protein; Synuclein (Iwai, A. (720) 230)

E-box
Trinucleotide repeat; Cyclic AMP regulated sequence; C6 cell; PC12 cell; L6 cell (Song, W. (721) 204)

Ecgonine methyl ester
PC12 cell; Nerve growth factor; Cocaine; Neuronal differentiation; Benzoylecgonine; Local anesthetic (Zachor, D.A. (729) 270)

Ectopia
Autoimmunity; Cortex; Cortical development; Dyslexia; Enriched environment; Hebb-Williams maze; Lashley maze; Morris maze; Neuronal migration; Reference memory (Boehm, G.W. (726) 11)

Edema
Closed-head injury; Free radical; Neuroprotection; Nitroxide (Beit-Yannai, E. (717) 22)

Neurotoxic lesion; Ibotenic acid; Magnetic resonance imaging; Piriform cortex (Ben-Horin, N. (718) 97)

AMPA; Cyclothiazide; Purkinje cell; Cerebellum; Non-NMDA; Desensitization (Strahlendorf, J.C. (729) 197)

Edinger-Westphal
Calcium ATPase; Synaptic terminal; Synaptic vesicle; Calyx; Cholinergic (Fujii, J.T. (734) 193)

EEDQ
Serotonin $5\text{-}HT_{1A}$ receptor; Aging; 8-Hydroxy-DPAT; Receptor binding (Keck, B.J. (728) 130)

Substantia nigra pars reticulata; D_2 dopamine receptor; Quinpirole; Pertussis toxin; Iontophoresis; Extracellular single unit recording (Martin, L.P. (729) 156)

EEG
Auditory; Evoked potential; Gamma-band (Brett, B. (721) 155)

EEG power spectrum
Sleep; Nerve growth factor; Cholinergic basal forebrain; 192 IgG-saporin; Rat (Kapás, L. (712) 53)

Efferent
Auditory cortex; Cochlear nucleus; Corticofugal; Fast blue; Layer V (Weedman, D.L. (706) 97)

Vestibular; Hybridization, in situ; Hair cell; Nicotinic acetylcholine receptor; Scarpa's ganglion (Hiel, H. (738) 347)

Efferent fiber
Cone pedicle; Horizontal cell; Synaptic plasticity; Dopamine; Nucleolus-like body; Light- and dark-adaptation (De Juan, J. (707) 213)

EF-hand
Ca^{2+}-binding protein; Mollusc; *Helix pomatia*; Invertebrate; Immunocytochemistry; Electrophysiology (Kubista, H. (716) 53)

Eight-arm maze
Adrenergic receptor; Hypothalamus; Septal-hippocampal pathway; Tyrosine; Cognitive function; Mouse; Diet restriction; Anorexia nervosa (Avraham, Y. (732) 133)

Elbow joint
Muscle spindle; Kinaesthesia; Proprioception; Intrafusal; Contraction; Stretch; Afferent; Sensation (Wise, A.K. (735) 125)

Electrical
Laser; Thermode; Temporal summation; Human; Hyperalgesia (Arendt-Nielsen, L. (712) 165)

Electrical kindling
3-Aminopropylarsonate; 2-Amino-4-arsonobutyrate; Epileptogenesis; *N*-Methyl-D-aspartate; Seizure; γ-Aminobutyric acid; Kainate; Amygdala (Abdul-Ghani, A.-S. (742) 305)

Electrical stimulation
c-*fos*; Ureter; Rat; Spinal cord; Afferent input (Matsumoto, G. (709) 197)

Axon excitability; Activity dependence; Conduction latency; Low-threshold mechanoreceptors; Sciatic nerve; Rat (Waikar, S.S. (721) 91)

Saccade; Remembered target; Dorsomedial frontal cortex; Frontal eye field; Rhesus monkey (Tehovnik, E.J. (727) 221)

Paraventricular nucleus; Oxytocin cell; Dorsal penile nerve; Tactile stimulation; Castration; Rat (Yanagimoto, M. (733) 292)

Electrical synapse
Gap junction; Retina; Connexin; Vision; Plasticity (McMahon, D.G. (718) 89)

Electrical vestibular stimulation
Locus coeruleus; Rat; Caloric stimulation; GABA; Iontophoresis; Vestibulo-autonomic reflex; Labyrinthectomy (Nishiike, S. (712) 84)

Electrochemistry
5-Hydroxyindoleacetic acid; Serotonin; Monoamine oxidase type A or B; Monoamine oxidase inhibitor; Rat (Marinesco, S. (736) 82)

Electroconvulsive seizure
Electroconvulsive stimulation; c-*fos*; Neuropeptide Y; Somatostatin; Dentate gyrus (Woldbye, D.P.D. (720) 111)

Electroconvulsive shock
Seizure; Rat; Epilepsy; Animal model; Inbred rat strain; Spontaneously hypertensive rat (Francis, A. (721) 150)

Electroconvulsive stimulation
Electroconvulsive seizure; c-*fos*; Neuropeptide Y; Somatostatin; Dentate gyrus (Woldbye, D.P.D. (720) 111)

Electrocorticogram
Low voltage fast activity; Neocortex; Serotonin (5-HT); 5-HT agonist; 5-HT receptor (Dringenberg, H.C. (728) 181)

Electrode array
Multielectrode; Recording; Electrophysiology; Parallel processing; Visual cortex (Nordhausen, C.T. (726) 129)

Electroencephalography
Epilepsy; Seizure; Absence; Petit mal; γ-Aminobutyric acid; Pharmacological antagonist; Rat (Smith, K.A. (729) 147)

8-OH-DPAT; Ipsapirone; BMY 7378; Spiperone; Rhythmic slow activity; Serotonergic neuronal activity; REM sleep; Cat (Marrosu, F. (739) 192)

Electrolytic lesion
Noradrenaline; Lumbar spinal cord; Ventral horn; Microdialysis; Transmitter release; Neurotoxin; Rat (Leanza, G. (738) 281)

Electromyogram
Peripheral nerve regeneration; Polyglycolic acid-collagen tube; Horseradish peroxidase; Somatosensory evoked potential; Cat sciatic nerve; Intracellular recording from motoneuron; Reinnervation, misdirected (Kiyotani, T. (740) 66)

Electromyography
Motor unit; Wrist extensor muscle; Human; Post-effect; Post-vibratory contraction (Ribot-Ciscar, E. (716) 84)

Electron affinity
Reduction potential; Rat brain microsomes; Redox cycling of xenobiotics; Superoxide radical; NADPH-cytochrome *P*-450 reductase; Quinone; Nitroheterocycle; Bipyridinium; Brain ageing; Neurodegeneration (Livertoux, M.-H. (725) 207)

Electron microscopy
Postembedding immunocytochemistry; Vestibular nuclei; Eye movement; Vestibulo-ocular reflex (Wentzel, P.R. (707) 314)

Neurotensin; Tyrosine hydroxylase; Double pre-embedding immunocytochemistry; Mediobasal hypothalamus; Guinea pig (Marcos, P. (715) 63)

Acetylcholine; Astroglia; Muscarinic receptor; Microvessel (Luiten, P.G.M. (720) 225)

Opioid peptide; Dense-core vesicle; Dentate gyrus; Mossy fiber; Learning and memory (Commons, K.G. (724) 1)

Acetylcholine; γ-Aminobutyric acid; Nucleus prepositus hypoglossi; Optokinetic reflex; Crest synapse (Caffé, A.R. (724) 136)

Dopamine receptor; Tyrosine hydroxylase; Striatum; Substantia nigra; Immunohistochemistry (Caillé, I. (730) 17)

Choroid plexus; Microvillus; Ezrin; Cell polarity; Spaceflight; Gravity; Immunocytochemistry (Gabrion, J. (734) 301)

Insulin; Brain; Spinal cord; Dorsal root ganglia; mRNA; Polymerase chain reaction; In solution hybridization (Schechter, R. (736) 16)

Hippocampus; γ-Aminobutyric acid; Neuropeptide Y; Somatostatin (Commons, K.G. (738) 181)

NADPH diaphorase; Nitric oxide synthase; Estrogen receptor; Ventromedial hypothalamus; Immunocytochemistry; Reproductive behavior (Rachman, I.M. (740) 291)

Electron probe X-ray microanalysis
Anoxia; Reperfusion injury; Reoxygenation; Ischemia; Axon; Peripheral nerve; Elemental composition (Lehning, E.J. (715) 189)

Electron spin resonance
Cerebral ischemia-reperfusion; Platelet-activating factor; Thromboxane; Free radical; Ascorbyl radical (Matsuo, Y. (709) 296)

Electrophysiology
Ca^{2+}-binding protein; EF-hand; Mollusc; *Helix pomatia*; Invertebrate; Immunocytochemistry (Kubista, H. (716) 53)

Locus coeruleus; Corticotropin-releasing factor; Stress; Depression; Desensitization; Blood pressure (Conti, L.H. (722) 19)

Corticotropin-releasing hormone; CRH; Corticotropin-releasing factor; CRF; Locus coeruleus (Borsody, M.K. (724) 149)

Neuronal nicotinic receptor; Nicotine; Acetylcholine; Chick central nervous system; Brain slice (Weaver, W.R. (725) 95)

Multielectrode; Recording; Electrode array; Parallel processing; Visual cortex (Nordhausen, C.T. (726) 129)

Axonal regeneration; Respiratory neuron; Peripheral nerve graft; Nerve grafting; Rat; Schwann cell; Spinal cord; Wallerian degeneration (Decherchi, P. (726) 181)

Chick; Morphology; Learning; Plasticity (Bradley, P.M. (727) 125)

Short-term potentiation; Long-term potentiation; Lead; NMDA; Excitatory postsynaptic potential; Extracellular recording; Neurotoxicity (Grover, C.A. (734) 61)

Dorsal raphe nucleus; Intracellular recording; 5-HT neuron; Serotonin (Hajós, M. (737) 308)

Thalamus; Parkinson; Cat; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) (Schneider, J.S. (742) 25)

Genetically epilepsy-prone rat strain 9 (GEPR-9); Epilepsy; Serotonin (Salgado-Commissariat, D. (743) 212)

Noradrenaline; Red nucleus; α_2-Adrenoceptor; β-Adrenoceptor; Microiontophoresis (Ciranna, L. (743) 284)

Electroshock
Gene expression; Hybridization, in situ; Glutamate; Messenger RNA; Seizure (Porter, R.H.P. (710) 97)

Elemental composition
Anoxia; Reperfusion injury; Reoxygenation; Ischemia; Axon; Electron probe X-ray microanalysis; Peripheral nerve (Lehning, E.J. (715) 189)

Elevated X-maze
Transgenic rat; TGR(mREN2)27 rat; Behaviour; Open-field (Wilson, W. (729) 1)

Elimination
Recombinant human nerve growth factor; Diffusion; Controlled release; Brain interstitium; Diffusion; Polymer (Krewson, C.E. (727) 169)

ELISA immunoassay
Brain-derived neurotrophic factor; Serotonin; Neurotrophic factor; Platelet; Serum; Brain (Radka, S.F. (709) 122)

EL mouse
Peripheral-type benzodiazepine receptor; Epilepsy; Mitochondria; Ro 5-4864; Flunitrazepam; Pentylenetetrazole (Nakamoto, Y. (717) 91)

Nitric oxide; NADPH diaphorase; Hippocampal formation; Convulsive seizure; Epilepsy (Nagatomo, I. (730) 223)

Epilepsy; Antiepileptic drug; Zonisamide; Drug interaction; Serum concentration; Brain concentration (Nagatomo, I. (731) 190)

Embryogenesis
Neurite development; Renin-angiotensin system (Moeller, I. (725) 61)

Emetine
Somatic cell fusion; Neuron; Dorsal root ganglia; Hybridoma; Actinomycin D (Hikawa, N. (734) 345)

Endocrine
Hindbrain; Conditioned taste aversion; Hypothalamic–pituitary–adrenal (HPA) axis; Behavioral toxicity (Edmonds, B.K. (712) 127)

Endocytosis
Amyloid precursor protein; β-Amyloid; Alzheimer's disease; Processing; Alkalizing agent; Intracellular compartment (Schrader-Fischer, G. (716) 91)

Endogenous opioid
Superior colliculus; Periaqueductal gray matter; Defensive reaction (Coimbra, N.C. (736) 348)

Endogenous opioid system
Cell division; μ-Opioid receptor; Neural development; Intracellular calcium; Dantrolene; Nifedipine; Thapsigargin; Fura-2 (Hauser, K.F. (720) 191)

Opioid receptor; Cell division; Central nervous system maturation; Neuroglia; Drug abuse; U69593; U50488H; *Nor*-binaltorphimine; Fura-2; Intracellular calcium; Nifedipine; Thapsigargin (Gurwell, J.A. (737) 175)

Cell division; PL017; μ Opioid receptor immunocytochemistry; Neural development; Drug abuse (Knapp, P.E. (743) 341)

Endolymph
Frog labyrinth; Clofilium; Transepithelial potential; K secretion; Synaptic transmission; Information coding (Rossi, M.L. (721) 174)

Endopeptidase 3.4.24.15
Endopeptidase 3.4.24.16; Human brain; Pig brain; Neurotensin; Peptide inactivation (Vincent, B. (709) 51)

Endopeptidase 3.4.24.16
Endopeptidase 3.4.24.15; Human brain; Pig brain; Neurotensin; Peptide inactivation (Vincent, B. (709) 51)

Endoplasmic reticulum
Autosomal recessive; Ataxic mutant; Dilute-opisthotonus rat; Dendritic spine; Inositol 1,4,5-Trisphosphate receptor; Purkinje cell abnormality (Dekker-Ohno, K. (714) 226)

β-Endorphin
Cell culture; Hypothalamus; Adenylyl cyclase; Ascorbic acid (Yang, Z. (706) 243)

Hibernation; Opioid; Dynorphin A; Septum (Cui, Y. (710) 271)

Analgesia; Morphine; Amygdala; Periaqueductal gray; μ Opioid receptor; δ_2 Opioid receptor (Pavlovic, Z.W. (741) 13)

Endothelial cell
Kainic acid; Excitotoxin; Brain; Nitric oxide synthase; NADPH diaphorase; Glial cell (Lei, D.-L. (730) 199)

Cyclooxygenase-2; Interleukin-1; Intercellular adhesion molecule-1; Type-1 interleukin-1 receptor; Fever; Hybridization, in situ (Cao, C. (733) 263)

Endothelin
Dopamine; Turning behavior; Striatum; 6-Hydroxydopamine; BQ788; BQ123 (Webber, K.M. (724) 180)

Nitric oxide; Cerebral ischemia; Cerebral blood flow; $Endothelin_A$ receptor (Spatz, M. (726) 242)

Ageing; Microvasculature; Amyloid peptide; Substance P (Khalil, Z. (736) 206)

Endothelin-1
Spinal cord injury; Astrocyte; SB209670; Monoclonal antibody RC1 (Uesugi, M. (728) 255)

Endothelin$_A$ receptor
Endothelin; Nitric oxide; Cerebral ischemia; Cerebral blood flow (Spatz, M. (726) 242)

Endothelium
Permeability; Energy deprivation; Fluorocitrate (Rist, R.J. (730) 87)

Endotoxin
Apoptosis; Hippocampus; Hypothalamus; Interleukin-1β; Lipopolysaccharide; Pituitary (Tingsborg, S. (712) 153)

Thymulin; Hyperalgesia; Inflammation; Neuroimmunology (Safieh-Garabedian, B. (717) 179)

Preoptic area; Anterior hypothalamus; Brain microdialysis, in vivo; Body temperature; Prostaglandin E_2; Neuroimmunomodulation; Cytokine (Sehic, E. (726) 160)

Endplate
Quantum; Miniature endplate current; Acetylcholine; Monoethylcholine; Synaptic vesicle (Naves, L.A. (730) 58)

Energy deprivation
Endothelium; Permeability; Fluorocitrate (Rist, R.J. (730) 87)

Energy metabolism
Cloning; Northern blot; Selective vulnerability; Human brain; Alzheimer's disease (Fukuyama, R. (713) 290)

Methamphetamine; MPTP; Malonate; Mice; Striatum; Dopamine; Metabolic inhibition (Albers, D.S. (718) 217)

Cerebral ischemia; Hyperglycemia; Intracellular pH; Postischemic alkalinization (Katsura, K.-i. (726) 57)

Newborn; Brain injury; Hypoxia; Na^+,K^+-ATPase; Outcome (Rosenkrantz, T.S. (730) 52)

Energy production
Regulation of glycolysis; Synaptosome; Hexokinase; C6 cell (Erecińska, M. (726) 153)

Enkephalin
Aging; Hippocampus; Opioid; Receptor binding; Diprenorphine (Nagahara, A.H. (707) 22)

Autonomic; δ; ICI 154,129; μ; Naloxone; Opioid; Solitarius; Vagal (Feldman, P.D. (709) 331)

Haloperidol; Stereotypy; Somatostatin; Dynorphin; Substance P (Marin, C. (731) 57)

PAG neuron; Glycine; Cl^- response; 2nd messenger; PKA (Min, B.I. (734) 72)

Enriched environment
Autoimmunity; Cortex; Cortical development; Dyslexia; Ectopia; Hebb-Williams maze; Lashley maze; Morris maze; Neuronal migration; Reference memory (Boehm, G.W. (726) 11)

Ensemble coding
Stimulus discrimination; Simultaneous recording; Afferent, single; Afferent, sensory; Afferent, muscle; Mechanoreceptor (Bergenheim, M. (734) 157)

Enteric glia
Myenteric neuron; Pulsed nitrogen laser; Calbindin-D_{28}; Intracellular free calcium; ATP; AH/Type 2; Dogiel type II; S/Type 1 (Christofi, F.L. (725) 241)

Enteric nervous system
Stem cell factor; Interstitial cells of Cajal; Pacemaker cells; Gastrointestinal motility (Torihashi, S. (738) 323)

Entorhinal cortex
ACh release; 5-HT_3 receptor; Striatum; Ondansetron; Bicuculline (Ramírez, M.J. (712) 274)

Axonal sprouting; Hippocampus; Mutant mouse; Neuromorphological plasticity; Septum (Shi, B. (740) 89)

Entrainment
Circadian rhythm; Arousal; Serotonin; Hamster; Activity; Non-photic (Sumova, A. (709) 88)

Circadian rhythm; Immediate early gene; Suprachiasmatic nucleus; FluoroGold (Peters, R.V. (728) 231)

Suprachiasmatic nucleus; Circadian rhythm; *junB*; Gene expression; Immediate-early gene; Light; Spontaneous expression; Transcription regulation (Guido, M.E. (732) 215)

Suprachiasmatic nuclei; Food anticipation; Circadian rhythm; Food restriction; Time discrimination (Mistlberger, R.E. (739) 12)

Suprachiasmatic nucleus; Circadian rhythm; *fosB*; c-*fos*; Gene expression; Immediate-early gene; Light; Transcription regulation (Guido, M.E. (739) 132)

Suprachiasmatic nuclei; Circadian system; Photic responsiveness; Neurophysiology; Visual system (Meijer, J.H. (741) 352)

Acetylcholine; Atropine; Carbachol; Circadian rhythm; Mecamylamine; Suprachiasmatic; Phase–response curve (Bina, K.G. (743) 202)

Environment
Associative learning; Stress; Rotational behavior; Rat (Crombag, H.S. (722) 227)

Environmental enrichment
Hippocampus; Long-term potentiation; Postsynaptic; Glutamate receptor binding; Memory (Foster, T.C. (736) 243)

Environmental stimulus
Exercise; Physical activity; Neural activity; Neurotrophin; Gene expression; Brain plasticity (Neeper, S.A. (726) 49)

Enzyme assay
Quantitative microdialysis; Glutamate; Rat striatum; Extracellular concentration; Unanesthetized (Miele, M. (707) 131)

Enzyme histochemistry
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ET-1
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N-Methyl-D-aspartate receptor; Glutamate; Glycine; Single channel; Competitive antagonism; Coagonist hypothesis; 5,7-Dichlorokynurenate (Currás, M.C. (740) 27)

N-Methyl-D-aspartate; Aging; Gonadotropin releasing hormone; Gonadotropin (Arias, P. (740) 234)

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Polyamine amide toxin; Neuroprotection; Cerebellar granule cell; Excitatory amino acid receptor (Green, A.C. (717) 135)

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Spinal cord injury; Fetal spinal cord implant; Hyperreflexia; H-reflex; Rat (Skinner, R.D. (729) 127)

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Extracellular 5-HIAA
Microdialysis; Hippocampus; Extracellular 5-HT; Tryptophan administration; Exercise; Food deprivation (Meeusen, R. (740) 245)

Extracellular 5-HT
Microdialysis; Hippocampus; Extracellular 5-HIAA; Tryptophan administration; Exercise; Food deprivation (Meeusen, R. (740) 245)

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Osteonectin; Anti-adhesive (Mendis, D.B. (730) 95)

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Short-term potentiation; Long-term potentiation; Lead; NMDA; Excitatory postsynaptic potential; Electrophysiology; Neurotoxicity (Grover, C.A. (734) 61)

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Fastigial nucleus
Cerebellum; Spatial orientation; Motor coordination; Visual discrimination learning; Sensorimotor learning (Joyal, C.C. (739) 1)

Fasting
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Fat
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Kindling; Amygdala; Thalamus; Palmitate; Lipid; Deoxyglucose; Brain; Plasticity; Seizure; Phospholipid; Phosphatidylcholine; Activation (Arai, T. (743) 131)

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Fear-potentiated startle
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Serotonin; Dorsal raphe nucleus; Single unit activity; Cat; Motor activity; Grooming; Central pattern generator (Fornal, C.A. (716) 123)

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Cobalt protoporphyrin; Intracerebroventricular injection; Neuropeptide Y; Hypothalamus (Choi, S.J. (729) 223)

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Female
Prolactin; Rat; Central administration; Ovariectomy; Food intake; Hyperphagia; Food restriction (Sauvé, D. (729) 75)

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Female rat
$GABA_B$ receptor; Progesterone; Steroid hormone; Neocortex (Al-Dahan, M.I. (727) 40)

Male rat; Medial preoptic area; Bed nucleus of the stria terminalis; Medial amygdala; Midbrain; Steroids; Copulation (Coolen, L.M. (738) 67)

Fenfluramine
Galanin receptor antagonist; Clonidine; Desipramine; Dipyrone; Antinociception (Selve, N. (735) 177)

Serotonin; 5-HT synthesis rate; Autoradiography; Rat brain (Mück-Šeler, D. (737) 45)

D-Fenfluramine
Neurotoxicity; Serotonin uptake carrier; Serotonin release; Rat brain; Synaptosome (Gobbi, M. (730) 165)

Fenvalerate
Pyrethroid; Tetramethrin; Dichlorodiphenyltrichloroethane; Sodium channel; Dorsal root ganglion (Song, J.-H. (708) 29)

Ferret
Superior colliculus; Parabigeminal nucleus; Visual processing; Topographical projection; Horseradish peroxidase; Fluorescent microsphere (Jiang, Z.D. (743) 217)

Ferritin
MPTP; Parkinson's disease; Oxidative stress; Microglia; Immunohistochemistry (Goto, K. (724) 125)

Ischemia; Transferrin; Delayed neuronal death; Astrocyte; Microglia; Oligodendrocyte; Immunocytochemistry (Ishimaru, H. (726) 23)

Fetal alcohol syndrome
Ethanol; Central nervous system neuron; Fura-2; Glutamate receptor; Neuronal development; Intracellular calcium (Gruol, D.L. (728) 166)

Astrocyte; Neuroglia; Alcohol; DNA synthesis; Brain atrophy; Microencephaly; Alcoholism (Kane, C.J.M. (731) 39)

Brainstem; Cerebellum; Cerebral cortex; Hippocampus; Microencephaly (Miller, M.W. (734) 286)

Neurotrophin; Nerve growth factor receptor; Cell culture; PC12; Nerve growth factor binding study; Immunoprecipitation; Northern blot analysis (Luo, J. (737) 34)

Fetal spinal cord implant
Exercise; Spinal cord injury; Hyperreflexia; H-reflex; Rat (Skinner, R.D. (729) 127)

Fetus
NMDA receptor; Glycine binding; Development; Hypoxia; Brain (Razdan, B. (733) 15)

Fever
Cyclooxygenase-2; Interleukin-1; Intercellular adhesion molecule-1; Type-1 interleukin-1 receptor; Hybridization, in situ; Endothelial cell (Cao, C. (733) 263)

F1/GAP-43
Long-term potentiation; Protein kinase C; Mossy fiber; Phosphorylation; Hippocampus (Son, H. (739) 282)

bFGF
Development; Neural retina; Ganglion cell; Rod photoreceptor; Retinoic acid; Opsin; Tissue culture (Zhao, S. (723) 169)

Tenascin; Laminin; Hemitransection; Rat brain; Hybridization, in situ; mRNA (Lippoldt, A. (730) 1)

Fiber-optic plate
Video microscopy; Fluorescence microscopy; Calcium measurement; Hippocampus; Anoxia; In vivo experiment (Hirano, M. (732) 61)

Fibre outgrowth
Neurotrophin; Parkinson's disease; Nigral graft (Haque, N.S.K. (712) 45)

Fibroblast
MPTP; MPP^+; Heat shock protein; Cytotoxicity (Freyaldenhoven, T.E. (735) 42)

Fibroblast growth factor
Trichostatin A; PC12D cell; Neurite; Nerve growth factor (Sano, M. (742) 195)

Fibroblast growth factor family
Muscle fiber; Immunocytochemistry; Rat (Junttila, T. (707) 81)

Fibronectin
mRNA; Alternative splicing; Brain; Aging; Rat; Food restriction (Dorner, H. (726) 198)

Field potential
Benzodiazepine; Chlordiazepoxide; Flumazenil; Medial septum; Hippocampus; Dentate gyrus; Synaptic plasticity; Long-term potentiation (Stackman, R.W. (717) 12)

Basolateral amygdala; Dentate gyrus; Paired-pulse facilitation; Long-term potentiation; Amygdalo-hippocampal interaction; Anesthetized rat (Ikegaya, Y. (718) 53)

Somatosensory cortex; Anesthetized rat; Periodic medial lemniscus stimulation; Phase-locking; Chaos; One-dimensional strobomap; Strange attractor; Period doubling-bifurcation; Correlation dimension; Lyapunov exponent (Ishizuka, S. (723) 46)

Subiculum; Seizure-like events; Late recurrent discharge; Low magnesium; Membrane-potential change; 5-HT (Behr, J. (737) 331)

Glucose deprivation; Kainate; Glutamate; $[Ca^{2+}]_o$; Presynaptic Ca^{2+} influx; Hippocampal slice; Rat (Alici, K. (738) 109)

Hippocampal slice; Pentylenetetrazol kindling; Primed-burst potentiation; Primed-burst depression (Fathollahi, Y. (738) 138)

Field potential, in vitro
Perirhinal cortex; Amygdala-kindling; Brain slice; Epilepsy (Matsumoto, Y. (741) 44)

Filament
Focal cerebral ischemia; Intraluminal thread; Rat; MK-801; Strain difference (Oliff, H.S. (731) 208)

Fimbria
Synaptic potentiation; Long-term potentiation; Lateral septum; CA3; Rat (Garcia, R. (737) 169)

Fimbria-fornix transection
Hemicholinium-3 binding; Choline acetyltransferase; Muscarinic receptor; Tyrosine hydroxylase; Septum; Hippocampus; Developmental lead-exposure; Superior cervical ganglionectomy (Bielarczyk, H. (708) 108)

Fink-Heimer stain
Ibogaine; Purkinje cell; Cerebellum; Neurotoxicity; Zebrin; Glial fibrillary acidic protein (Molinari, H.H. (737) 255)

F2 intercross
WKHA rat; Inbred rat strain; Stress; Locomotor activity; Anxiety; Factor analysis; Neuroendocrinology (Courvoisier, H. (743) 77)

Firing pattern
Brain-derived neurotrophic factor; BDNF; Growth factor; Serotonin (Celada, P. (712) 293)

Serotonin; Extracellular recording; Collision test; Dorsal raphe nucleus (Hajós, M. (740) 162)

First dorsal interosseous
Motor unit; Rate coding strategy; Biceps brachii; Muscle fiber composition (Seki, K. (719) 1)

Fischer 344 rat
Microdialysis; Dopamine; Ethanol; Strain difference; Lewis rat; Nucleus accumbens (Mocsary, Z. (706) 194)

Fish
Autoradiography; Brain; Communication; Pituitary; Sexual dimorphism; Steroid (Fine, M.L. (709) 65)

Fisher rat
Muscarinic receptor; Phospholipase C; Phosphoinositide; PLC-mRNA; In situ hybridization; Aging; Brain; Signal transduction (Narang, N. (708) 143)

FITC-dextran
Cerebral venules; Cerebral microcirculation; Hoe-140; Vascular permeability; Brain; Rat (Mayhan, W.G. (738) 337)

Cerebral venule; Pial arteriole; Nitric oxide; L-NMMA; Brain; Rat (Mayhan, W.G. (743) 70)

Fixed-ratio discrimination learning
Neonatal 6-hydroxydopamine; Striatal catecholamine; Cortical catecholamine; Dopaminergic neuronal plasticity; Operant training (Stodgell, C.J. (713) 246)

FK506
N-Methyl-D-aspartate (NMDA) receptor; Long-term potentiation; Depotentiation; Calcineurin; Cyclosporin A; Synaptic plasticity; Hippocampus (Lu, Y.-F. (729) 142)

Flank marking
MPOA-AH; NMDA receptor; Non-NMDA receptor; Aggression (Bamshad, M. (731) 213)

Flavor
Macaque; Monkey; Taste; Amygdala; Satiety (Yan, J. (740) 193)

Flexion reflex
Tachykinin; Neurokinin receptor; Nociception; Hyperalgesia; Inflammation; Substance P; Spinal cord hyperexcitability (Parsons, A.M. (739) 263)

Flight
Insect; Locust; Motor pattern; Temperature; Membrane potential; PSP amplitude (Xu, H. (734) 213)

Flocculus
Vestibular rotation; Decerebrate cat; Purkinje cell; Adaptation (Powell, K.D. (710) 281)

Flow cytometry
NMDA; MK-801; Cerebellum; Granule cell; Oxidative stress; Calcium; Indo-1 (Sureda, F.X. (723) 110)

Excitatory amino acid; Intracellular Ca^{2+}; Neuronal death (Oyama, Y. (728) 121)

Fluid balance
Neurophypophysis; Paraventricular nucleus of the hypothalamus; Aortic depressor nerve; Central cardiovascular regulation; Hypertension (Ciriello, J. (739) 52)

Neuroendocrinology; Hypothalamo-hypophysial; Osmoregulation; Neurohypophysis (Vanhatalo, S. (740) 253)

Fluid percussion
Brain injury; Protein kinase C; Diacylglycerol (Padmaperuma, B. (714) 19)

Traumatic brain injury; Phosphatidylinositol bisphosphate; Diacylglycerol; Free fatty acid; Arachidonic acid; Scopolamine; Muscarinic; Rat (Lyeth, B.G. (742) 63)

Flumazenil
Benzodiazepine receptor; Inverse agonist; Rat; Cerebellum; RU 34347; γ-Aminobutyric acid (Pringle, A.K. (715) 155)

Benzodiazepine; Chlordiazepoxide; Medial septum; Hippocampus; Dentate gyrus; Field potential; Synaptic plasticity; Long-term potentiation (Stackman, R.W. (717) 12)

RO19-4603; ZK 93426; CGS 8216; Alcohol-preferring (P) rat; $GABA_A$–BDZ; Benzodiazepine inverse agonist (June, H.L. (734) 19)

Flunarizine
Epilepsy; Human slice; Calcium antagonist; Verapamil; Bicuculline (Straub, H. (733) 307)

Flunitrazepam
Peripheral-type benzodiazepine receptor; EL mouse; Epilepsy; Mitochondria; Ro 5-4864; Pentylenetetrazole (Nakamoto, Y. (717) 91)

Ammonia; Muscimol; $GABA_A$ receptor; Liver failure (Ha, J.-H. (720) 35)

Fluorescence
Cerebellum; Slice; Microscopy; Phospholipid (Schreurs, B.G. (730) 125)

Age; Hippocampus; SNARF; Brain slice; pH regulation (Roberts Jr., E.L. (735) 339)

Fluorescence microscopy
Fiber-optic plate; Video microscopy; Calcium measurement; Hippocampus; Anoxia; In vivo experiment (Hirano, M. (732) 61)

Fluorescent dye
Peripheral nerve; Ischemia; Intracellular pH; Intracellular Ca^{2+}; Neuropathy (Wächtler, J. (725) 30)

Primary culture; Receptor localization; Mitochondrion (Hoyt, K.R. (731) 21)

Fluorescent microsphere
Retrograde tracing; Brainstem; Periaqueductal grey; Ventral medulla; Rat (Hudson, P.M. (733) 138)

Superior colliculus; Parabigeminal nucleus; Ferret; Visual processing; Topographical projection; Horseradish peroxidase (Jiang, Z.D. (743) 217)

Fluorescent retrograde tracer
Retina; Lateral habenular nucleus; Selective silver impregnation; Albino rat (Qu, T. (709) 251)

Fluorescent tracer
Correlation; Ipsilateral projection; Lateral geniculate nucleus; Superior colliculus; Double-labeling; Albino rat (Farid Ahmed, A.K.M. (706) 163)

Anterior thalamus; Retina; Ganglion cell (Farid Ahmed, A.K.M. (729) 119)

Rat; Spinal cord; Brachial enlargement; Forelimb; Motor nucleus; Motoneuron (Choi, J.Y. (738) 146)

Fluorocitrate
Mixed culture; Co-culture; Citric acid; Fructose 1,6-bisphosphate; Pentose phosphate pathway (Kelleher, J.A. (726) 167)

Endothelium; Permeability; Energy deprivation (Rist, R.J. (730) 87)

Hippocampal slice; CA1 pyramidal cell; Astrocyte; Anoxia; Aglycemia; MK-801; Rat (Nakanishi, H. (732) 232)

2-Fluorodeoxyglucose
Prefrontal cortex; Brain development; Associative learning; Memory; Conspecific vocalization (Poeggel, G. (743) 162)

Fluoro-Gold
Neuronal nitric oxide synthase; Retrograde tracing; Immunohistochemistry; Immunoelectron microscopy; Basilar artery (Kadota, O. (706) 129)

Circadian rhythm; Entrainment; Immediate early gene; Suprachiasmatic nucleus (Peters, R.V. (728) 231)

Fluoro-Green
Fluoro-Red; Retrograde fluorescent tracer; Double-labeling; Neuroanatomical study (Dong, K. (736) 61)

α-Fluoromethylhistidine
Short-term social memory; Histamine; Immepip; Thioperamide; Histidine (Prast, H. (734) 316)

Fluoro-Red
Fluoro-Green; Retrograde fluorescent tracer; Double-labeling; Neuroanatomical study (Dong, K. (736) 61)

Fluoxetine
Circadian rhythm; Olfactory bulbectomy; Wheel-running activity; Mouse (Possidente, B. (713) 108)

FMRFamide
Anesthetic; Identified neuron; Cell culture; *Lymnaea stagnalis*; Synaptic transmission (Spencer, G.E. (714) 38)

Focal cerebral ischemia
Ischemic depolarization; Penumbra; Forelimb; Postural reflex; Beam balance; Rat (Alexis, N.E. (706) 273)

Nerve growth factor; Middle cerebral artery; Immunohistochemistry; Rat (Lee, T.-H. (713) 199)

Excitotoxicity; Apoptosis; Hypoxia; Glutamate; NMDA (Du, C. (718) 233)

Intraluminal thread; Rat; MK-801; Strain difference; Filament (Oliff, H.S. (731) 208)

Middle cerebral artery occlusion; MCA; MCA-O; Rat; Strain difference; Behavior; Behavioral examination (Van der Staay, F.J. (735) 271)

Calcium channel; Diffusion-weighted MRI; ω-Conopeptide; SNX-111; Excitotoxicity; Rat (Yenari, M.A. (739) 36)

Blood-brain barrier; Evans Blue; Rat (Belayev, L. (739) 88)

Fodrin
Brain spectrin; Membrane cytoskeleton; Alzheimer's disease; Neuritic plaque; Amyloid plaque; Neurodegeneration (Sihag, R.K. (743) 249)

Follistatin module
Anti-adhesive glycoprotein; Extracellular matrix (Mendis, D.B. (713) 53)

Food anticipation
Suprachiasmatic nuclei; Circadian rhythm; Food restriction; Entrainment; Time discrimination (Mistlberger, R.E. (739) 12)

Food consumption
Prefrontal cortex; Dopamine release; Microdialysis; Stress; Arousal; Handling; Novelty (Feenstra, M.G.P. (742) 17)

Food deprivation
Neuropeptide Y; mRNA; Arcuate nucleus; Gold thioglucose; Ventromedial nucleus (Bergen, H.T. (707) 266)

Microdialysis; Hippocampus; Extracellular 5-HT; Extracellular 5-HIAA; Tryptophan administration; Exercise (Meeusen, R. (740) 245)

GRF receptor; Rat; Growth hormone-releasing factor (GRF) (Sugihara, H. (742) 355)

Food ingestion
Satiety; Water intake; Glucose; Insulin; Hindbrain (Menani, J.V. (740) 102)

Food intake
Vagus nerve; Nucleus tractus solitarius; Ventromedial hypothalamic nucleus; Area postrema; Pancreas; Ovariectomy; Cholecystokinin receptor; Devazepide; L365,260 (Geary, N. (179) 179)

Brainstem; Taste; Appetite; Palatability; Feeding; Benzodiazepine; Hyperphagia; Diazepam; Cerebral ventricle; Hindbrain; Anxiolytic (Peciña, S. (727) 22)

Prolactin; Rat; Female; Central administration; Ovariectomy; Hyperphagia; Food restriction (Sauvé, D. (729) 75)

Gold thioglucose; Ventromedial nucleus; Glucose; 2-Deoxyglucose; Cholecystokinin (Bergen, H.T. (734) 332)

Neuropeptide Y; Paraventricular nucleus; Perifornical hypothalamus; Respiratory quotient; Metabolism; Indirect calorimetry (Currie, P.J. (737) 238)

Food restriction
Opioid receptor; Parabrachial nucleus (Wolinsky, T.D. (706) 333)

Corticosterone; Cocaine; Metyrapone; Stress-induced sensitization; Locomotor response; Psychomotor effects (Marinelli, M. (724) 251)

Self-stimulation; Corticosterone; Sensitization; Aminoglutethimide; Metyrapone (Abrahamsen, G.C. (726) 39)

Fibronectin; mRNA; Alternative splicing; Brain; Aging; Rat (Dorner, H. (726) 198)

Prolactin; Rat; Female; Central administration; Ovariectomy; Food intake; Hyperphagia (Sauvé, D. (729) 75)

Suprachiasmatic nuclei; Food anticipation; Circadian rhythm; Entrainment; Time discrimination (Mistlberger, R.E. (739) 12)

Opioid binding; Quantitative autoradiography; Chicken brain (Stewart, M.G. (742) 343)

Food texture
Chewing rhythm; Central pattern generator; Jaw movement; Masticatory EMG; Head posture; Freely moving rabbit (Yamada, Y. (706) 237)

Footshock stress
Ventral tegmental area; Naltrexone methylbromide; Formalin test; Dopamine; Opioid; Analgesia (Altier, N. (718) 203)

Force control
Human motor control; Movement disorder; Cerebellum; Movement speed; Ataxia; Arm movement (Wild, B. (713) 186)

Forced hyperthermia
Haloperidol; Atropine; Dantrolene sodium; Creatine phosphokinase; Muscle rigidity; Set-point; Neuroleptic malignant syndrome (Tanii, H. (743) 263)

Forced swim
Benzodiazepine withdrawal; Stress; γ-Aminobutyric acid (GABA)-gated chloride flux; Plus maze; Anxiety (Martijena, I.D. (712) 239)

Forced swim test
Antidepressant; $GABA_B$ receptor; $GABA_A$ receptor; Rat (Nakagawa, Y. (709) 215)

Forebrain
Short-term adrenalectomy; Long-term adrenalectomy; Glucocorticoid receptor; Immunohistochemistry; Silver impregnation; Rat (Visser, D.T.M. (729) 216)

Nitric oxide synthase; Epilepsy; Chick; Hereditary; Seizure; Photic stimulation (Sandirasegarane, L. (735) 311)

Forebrain ischemia
Translocation; Phosphorylation; Ca^{2+}/calmodulin-dependent protein kinase II (Aronowski, J. (709) 103)

Forelimb
Focal cerebral ischemia; Ischemic depolarization; Penumbra; Postural reflex; Beam balance; Rat (Alexis, N.E. (706) 273)

Rat; Spinal cord; Brachial enlargement; Motor nucleus; Motoneuron; Fluorescent tracer (Choi, J.Y. (738) 146)

Forelimb behavior
Synaptic plasticity; Motor cortex; Restoration of function; Motor learning; Layer V; Stereology (Jones, T.A. (733) 142)

Formalin
Fos; Spinal cord; Arthritis; Inflammation; Potentiation (Leah, J.D. (719) 104)

Formalin test
Ventral tegmental area; Naltrexone methylbromide; Dopamine; Footshock stress; Opioid; Analgesia (Altier, N. (718) 203)

Pain; Calmodulin inhibitor; Spinal analgesia; Central hyperalgesia; Tail flick test; Rotarod test; Rat (Menendez, L. (731) 114)

Antinociception; Tolerance; NMDA receptor; Glycine co-agonist site (Lutfy, K. (731) 171)

Cyclooxygenase-1; Cyclooxygenase-2; Hot plate test; Prostaglandin (Yamamoto, T. (739) 104)

Intrathecal; NMDA receptor/glycine site; Non-NMDA receptor; Antinociception; Tail flick assay (Lutfy, K. (743) 17)

Forskolin
Cyclic adenosine 3′, 5′-monophosphate; Differentiation; Galactocerebroside; Proliferation (Yamada, H. (719) 187)

Acetylcholine release; Adenylate cyclase; Dissociated neuron; Striatum; Supersensitivity (Login, I.S. (735) 330)

Protein kinase A; diB-cAMP; Sp-cAMPS; Macropatch; Miniature end-plate current; Tadpole; *Bufo marinus* (Quiñonez, M. (737) 327)

Melatonin; Circadian rhythm (Green, C.B. (738) 1)

Fos
Circadian rhythm; Immediate early gene; Suprachiasmatic nucleus; Substance P; Spantide; Retinohypothalamic tract; Light (Abe, H. (708) 135)

Excitatory amino acid; Metabotropic glutamate; Glutamate; Jun (Kaatz, K.W. (709) 205)

Anxiety; Stress; Anxiety; Animal model; Medial prefrontal cortex; Lateral septum; Amygdala; Hypothalamus; Limbic cortex (Duncan, G.E. (713) 79)

Globus pallidus; Glutamate; Striatum; Recovery; Frontal cortex; Medial agranular cortex; Dopamine; Neglect; Amphetamine; Immediate early gene (Vargo, J.M. (716) 207)

Spinal cord; Arthritis; Inflammation; Formalin; Potentiation (Leah, J.D. (719) 104)

MK-801; Dopamine; A-85653; Quinpirole; Rotation; Sensitization; Tolerance (Asin, K.E. (725) 67)

Cerebral cortex; Dopamine; Reserpine; D1/D2 synergism; Cortical layer; Basal ganglia; Immediate-early gene (LaHoste, G.J. (728) 97)

Morphine; Opioid; U50,488H; Brain; Reward; Guinea-pig (Bot, G. (731) 45)

Cold; CRF; Dorsal motor nucleus of the vagus; Raphe pallidus; Gastric erosion; Central amygdala; Nucleus tractus solitarius; Paraventricular nucleus of the hypothalamus (Wang, L. (736) 44)

Immunohistochemistry; Corticotropin-releasing hormone mRNA (Eaton, M.J. (738) 60)

Picrotoxin; Immunohistochemistry; Calcium-binding protein; Neurofilament protein (Hiscock, J.J. (738) 301)

Adenosine; Suprachiasmatic nucleus; Circadian rhythm; Phase shift; Retinohypothalamic tract (Watanabe, A. (740) 329)

Corticotropin-releasing factor; Seizure; Hypothalamus; Amygdala; Stria terminalis (Piekut, D. (743) 63)

c-Fos
APEC; Adenosine; Amphetamine; CHA; Nucleus accumbens; Striatum (Turgeon, S.M. (707) 75)

Spinal trigeminal nucleus; Caudalis; Interpolaris; Heart rate conditioning; Unconditioned stimulus; Cornea; Medial geniculate (McEchron, M.D. (710) 112)

Sex difference; Sexual dimorphism; Amphetamine; Striatum; Basal ganglia; Dopamine (Castner, S.A. (712) 245)

Morphine; Naltrexone; Opioid; Withdrawal; Brain; Guinea-pig (Chahl, L.A. (717) 127)

Supraoptic nucleus; Immunocytochemistry; Equithesin (Xiong, J.-J. (719) 143)

Brainstem; Exercise; Rat (Iwamoto, G.A. (726) 109)

Antinociception; Spinal cord; Morphine; Carrageenin; μ-Opioid receptor; β-Funaltrexamine (Honoré, P. (732) 242)

Nucleus tractus solitarius; Learning; Lithium chloride; Aversion conditioning (Schafe, G.E. (741) 109)

c-Fos
Milk-ejection reflex; Dorsal root ganglia; Spinal cord; Hypothalamus; Sheep (Tsingotjidou, A. (741) 309)

Haloperidol; Buspirone; 5-HT_{1A} receptor; Striatum; Nucleus accumbens; Immunohistochemistry; Lesopitron (E-4424) (Palacios, G. (742) 141)

c-Fos
Adenosine receptor A_2; Striatum; DMPX; SKF38393; Dopamine receptor D_1 (Pollack, A.E. (743) 124)

Fos immunohistochemistry
Taste; Chemotopy; Nucleus of the solitary tract (Harrer, M.I. (711) 125)

Ultraviolet light; Visual cortex; Ultraviolet vision; Rat (Amir, S. (716) 213)

Behavioral sensitization; Dopamine; Mesolimbic; Nicotine; Ventral tegmental area (Panagis, G. (730) 133)

Fos immunoreactivity
Circadian rhythm; Intergeniculate leaflet; Suprachiasmatic nucleus; Constant light (Edelstein, K. (731) 221)

Auditory physiology; Double labeling; Horseradish peroxidase; Pontine nucleus (Qian, Y. (731) 241)

FOS immunoreactivity
Paraventricular nucleus; Supraoptic nucleus; Caudate putamen; Desensitization (Chang, S.L. (736) 227)

Fos-like immunoreactivity
Ventral tegmental nucleus; γ-Aminobutyric acid; Mamillary body (Shim, I. (712) 173)

Registry number 72026-83-6; Bed nucleus of the stria terminalis; Hypothalamic paraventricular nucleus (Rowland, N.E. (717) 189)

c-*fos* oligonucleotide; Nucleus tractus solitarius; Baroreceptor reflex; Rat (Shih, C.-D. (738) 39)

Fos protein
Δ^9-Tetrahydrocannabinol; D_1 receptor; SCH-23390; Rat (Miyamoto, A. (710) 234)

6-Hydroxydopamine; Striatum; L-DOPA; NMDA receptor; MK-801; Dopaminergic transplant; Rat (Ishida, Y. (727) 205)

c-Fos transcription factor
Amyloid β peptide; Antisense oligodeoxynucleotides; Cell death; Hippocampal cell line; Immunocytochemistry (Gillardon, F. (706) 169)

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Cerebral glucose metabolism; MK801; CGS19755; NMDA receptor (Sharkey, J. (735) 67)

Free corticosterone
Stress; HPA axis; Dopamine system; Selection line; Corticosteroid receptor (Rots, N.Y. (710) 189)

Free fatty acid
Traumatic brain injury; Fluid percussion; Phosphatidylinositol bisphosphate; Diacylglycerol; Arachidonic acid; Scopolamine; Muscarinic; Rat (Lyeth, B.G. (742) 63)

Freely moving rabbit
Chewing rhythm; Food texture; Central pattern generator; Jaw movement; Masticatory EMG; Head posture (Yamada, Y. (706) 237)

Freely moving rat
Calbindin immunohistochemistry; Matrix; Single-unit recording; Striatum; Striosome (Trytek, E.S. (707) 221)

Allopregnanolone; Acetylcholine release; Stress; Cortex; Hippocampus (Dazzi, L. (710) 275)

Free radical
Cerebral ischemia-reperfusion; Platelet-activating factor; Thromboxane; Ascorbyl radical; Electron spin resonance (Matsuo, Y. (709) 296)

Alzheimer's disease; Muscarinic receptor; Glutathione; Trolox; Thiyl radical (Frey II, W.H. (714) 87)

Ethanol; Ganglioside GM_1; Oxidative stress; Glutamate antagonist (Bondy, S.C. (716) 165)

Closed-head injury; Edema; Neuroprotection; Nitroxide (Beit-Yannai, E. (717) 22)

Spatial memory; Deferoxamine; Brain injury (Long, D.A. (717) 109)

Kainic acid; Ascorbic acid; Vitamin C; Allopurinol; Neuroprotection; Neurodegeneration (MacGregor, D.G. (727) 133)

Granule neuron; Glutamate toxicity; Neuroprotection; Enzyme inhibitor; Antioxidant; Necrosis; Apoptosis (Ciani, E. (728) 1)

Free radicals
Ascorbate; Glutathione; Decapitation ischemia; Gender; Hippocampus; Sex hormone (Kume-Kick, J. (738) 8)

Freeze substitution
Aspartate; Cochlea; Vestibular end organ; Guinea pig; Immunocytochemistry; Hair cell (Usami, S.-i. (742) 43)

Glutathione; Cochlea; Vestibular endorgan; Guinea pig; Immunocytochemistry; Antioxidant (Usami, S.-i. (743) 337)

Freezing
Acetylcholine; Behavioral inhibition; Dentate gyrus; Hippocampus; Presynaptic muscarinic receptor; Oxotremorine; Septohippocampal cholinergic system; Preweanling rat; Ultrasonic vocalization (Takahashi, L.K. (731) 230)

Freezing storage time
N-Methylscopolamine; Muscarinic receptor; Alzheimer's disease (Rodríguez-Puertas, R. (728) 65)

Frog
Calcium channel; Dorsal root ganglia; Cell size (Holohean, A.M. (711) 138)

Amphibian; Olfactory system; Accessory olfactory system; Extra-bulbar olfactory system; Acoustic system; Lectin; Soybean agglutinin (Meyer, D.L. (722) 222)

Nitric oxide synthase; NADPH diaphorase; Brain; Anura (Brüning, G. (741) 331)

Frog labyrinth
Endolymph; Clofilium; Transepithelial potential; K secretion; Synaptic transmission; Information coding (Rossi, M.L. (721) 174)

Frog neuromuscular junction
Niflumic acid; Non-steroidal antiinflammatory drug; Potassium current; Calcium current; Presynaptic current; Acetylcholine; Quantal transmitter release; Synaptic depression (Miralles, F. (714) 192)

Frog taste response
Inhibition of bitter response; Lipoprotein (Katsuragi, Y. (713) 240)

Frontal cortex
Globus pallidus; Glutamate; Striatum; Fos; Recovery; Medial agranular cortex; Dopamine; Neglect; Amphetamine; Immediate early gene (Vargo, J.M. (716) 207)

Dopamine D_2 receptor gene; Alcoholism; Naloxone; Opiate receptor; Caudate nucleus (Ritchie, T. (718) 193)

Dopamine; Stress; Nucleus accumbens; Striatum; Microdialysis; Aggression; Social interaction (Tidey, J.W. (721) 140)

Cholecystokinin; Dopamine; Microdialysis; *N*-Methyl-D-aspartate; Scopolamine; Release (Liu, J.K. (735) 30)

Aspartate; Capillary electrophoresis; Laser-induced fluorescence detection; Dexfenfluramine; GABA; Glutamate; In vivo brain microdialysis; Serotonin (Rocher, C. (737) 221)

Serotonin; Stress; Feeding; Behavioral activation; Hippocampus; Striatum; Amygdala (Rueter, L.E. (739) 57)

Cocaine; Dopamine; Prenatal; Nucleus accumbens; Microdialysis; Mesolimbic (Keller Jr., R.W. (742) 71)

Frontal cortex brain lesion
Alcohol; Frontal lobe; Prefrontal cortex; Serotonin; Dopamine; Nucleus accumbens; Raphe; Sucrose fading; Biological basis of reinforcement (Deckel, A.W. (723) 70)

Frontal eye field
Saccade; Remembered target; Dorsomedial frontal cortex; Electrical stimulation; Rhesus monkey (Tehovnik, E.J. (727) 221)

Frontal lobe
Alcohol; Prefrontal cortex; Frontal cortex brain lesion; Serotonin; Dopamine; Nucleus accumbens; Raphe; Sucrose fading; Biological basis of reinforcement (Deckel, A.W. (723) 70)

Fructose 1,6-bisphosphate
Mixed culture; Co-culture; Citric acid; Fluorocitrate; Pentose phosphate pathway (Kelleher, J.A. (726) 167)

Frustration effect
Amygdala; Central nucleus; Basolateral nucleus; Ibotenic acid; Reward reduction; Behavioral contrast; Crespi effect (Salinas, J.A. (742) 283)

L-Fucose
Hippocampus; Long-term potentiation; 2́-Fucosyllactose; Glycoprotein (Matthies, H. (725) 276)

2́-Fucosyllactose
Hippocampus; Long-term potentiation; L-Fucose; Glycoprotein (Matthies, H. (725) 276)

β-Funaltrexamine
Antinociception; c-Fos; Spinal cord; Morphine; Carrageenin; μ-Opioid receptor (Honoré, P. (732) 242)

Action potential shortening vs. prolongation; μ-/δ-/κ- vs. ϵ-opioid receptors; Naltrindole; Nor-binaltorphimine; Dorsal root ganglion neuron (Crain, S.M. (741) 275)

Functional activity
Neonate; Blood pressure; Immediate-early response gene; Gene induction; Autonomic nervous system; Catecholamine (Ruggiero, D.A. (706) 199)

Functional imaging
Human thalamus; Evoked response; Median nerve stimulation; Magnetic resonance imaging; Neuromagnetism (Tesche, C.D. (729) 253)

Functional inactivation
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Fura-2
Cell division; Endogenous opioid system; μ-Opioid receptor; Neural development; Intracellular calcium; Dantrolene; Nifedipine; Thapsigargin (Hauser, K.F. (720) 191)

Opiate; Intracellular Ca^{2+}; Synergy; Differentiation; Synchronization (Sarne, Y. (722) 203)

Ethanol; Central nervous system neuron; Glutamate receptor; Neuronal development; Intracellular calcium; Fetal alcohol syndrome (Gruol, D.L. (728) 166)

Calcium; Cyanide; Hypoxia; NMDA antagonist; Neurotoxicity (Ferger, D. (732) 87)

Opioid receptor; Cell division; Central nervous system maturation; Neuroglia; Drug abuse; Endogenous opioid system; U69593; U50488H; *Nor*-binaltorphimine; Intracellular calcium; Nifedipine; Thapsigargin (Gurwell, J.A. (737) 175)

Fura dye
Calcium; Hippocampal slice; Autofluorescence; Cyanide; Kainate (Brooke, S.M. (706) 283)

Fura-2 microfluorophotometry
Submucous plexus neuron; L-DOPA; L-DOPA methyl ester; Intracellular recording; Fast EPSP; Neurotransmitter release; Intracellular calcium concentration (Hirai, K. (718) 105)

Fusimotor effect
Primary muscle spindle afferent; Succinylcholine effect (Schäfer, S.S. (709) 111)

G

GABA
Respiratory neuron; Excitatory amino acid; Glycine; Strychnine; Bicuculline; Cat (Schmid, K. (710) 150)

Locus coeruleus; Rat; Caloric stimulation; Iontophoresis; Vestibulo-autonomic reflex; Labyrinthectomy; Electrical vestibular stimulation (Nishiike, S. (712) 84)

Predatory attack behavior; Medial amygdala; Hypothalamus; $GABA_A$ receptor; Muscimol; Bicuculline; Cat (Han, Y. (716) 72)

Rat; Spinal cord; In vitro; Prolonged inhibition; $GABA_B$ (Lacey, G. (717) 76)

Antinociception; Nucleus raphe magnus; Nucleus reticularis gigantocellularis pars α; $GABA_B$ receptor; CGP 35348 (Thomas, D.A. (718) 129)

Thalamus; Local circuit neuron; Confocal microscopy (Meng, X.-W. (728) 111)

Neurotensin; Microdialysis; Glycine; SR 48692; Rat (Chapman, M.A. (729) 124)

Adenosine; Adenosine A_1 receptor; $GABA_A$ receptor; Hypoxia; Hippocampus; Excitatory postsynaptic potential (Lucchi, R. (732) 261)

Aspartate; Capillary electrophoresis; Laser-induced fluorescence detection; Dexfenfluramine; Frontal cortex; Glutamate; In vivo brain microdialysis; Serotonin (Rocher, C. (737) 221)

Glycine; Inhibitory amino acid; Immunohistochemistry; Nucleus tractus solitarii; Sheep (Sweazey, R.D. (737) 275)

$GABA_A$
Steroid; Barbiturate; Pregnanolone; Regulation; Modulation; Uncoupling; Tolerance (Friedman, L.K. (707) 100)

Neurotransmitter receptor subtype; Development; Innervation; Cerebellar granule neuron (Ueno, S. (714) 49)

$GABA_B$
Rat; Spinal cord; In vitro; Prolonged inhibition; GABA (Lacey, G. (717) 76)

Receptor; cAMP; Brain slice; Coincident signaling (Cunningham, M.D. (720) 220)

Brain slice; Hippocampus; CA1; Receptor; Synaptic transmission; Presynaptic; Cerebrolysin (Xiong, H. (737) 188)

$GABA_A$–BDZ
RO19-4603; Flumazenil; ZK 93426; CGS 8216; Alcohol-preferring (P) rat; Benzodiazepine inverse agonist (June, H.L. (734) 19)

GABAergic neuron
Transforming growth factor α; Cholinergic neuron; Epidermal growth factor; Septal cell culture; Glia; Neurotrophic factor (Mazzoni, I.E. (707) 88)

GABAergic system
Basic fibroblast growth factor; Synaptic transmission; Synaptic modulation; Intracellular calcium oscillation (Tanaka, T. (723) 190)

GABA receptor
Epilepsy; Gene expression; Partial seizure; Hippocampal slice (Vick, R.S. (721) 111)

RDL (resistant to dieldrin) subunit; *Drosophila melanogaster*; THIP (4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3-ol); ZAPA (Z-3-[(aminoiminomethyl)thio]prop-2-enoic acid) (Matsuda, K. (739) 335)

$GABA_A$ receptor
Neurosteroid; Patch clamp; Cortical neuron; Decreased efficacy (Yu, R. (706) 160)

Antidepressant; $GABA_B$ receptor; Forced swim test; Rat (Nakagawa, Y. (709) 215)

Ethanol withdrawal; Kindling; Hippocampus; Pentylenetetrazol (Kang, M. (709) 221)

Chloride-sensitive indicator; MQAE; Receptor-mediated chloride flux; Glycine receptor; Neurotransmitter release (Engblom, A.C. (712) 74)

Predatory attack behavior; Medial amygdala; Hypothalamus; GABA; Muscimol; Bicuculline; Cat (Han, Y. (716) 72)

Ammonia; Muscimol; Flunitrazepam; Liver failure (Ha, J.-H. (720) 35)

Ethanol; Physical dependence; Desensitization; Lanthanum; Zinc; Dissociated neuron; Septum (Frye, G.D. (720) 101)

Caudate; Putamen; Chloride channel (Caruncho, H.J. (722) 185)

Lanthanide; Septal neuron; Cultured neuron; Voltage clamp (Kumamoto, E. (723) 235)

Desipramine; $GABA_B$ receptor; Learned helplessness; Rat (Nakagawa, Y. (728) 225)

Adenosine; GABA; Adenosine A_1 receptor; Hypoxia; Hippocampus; Excitatory postsynaptic potential (Lucchi, R. (732) 261)

Parkinson's disease; MPTP; Dyskinesia; Cabergoline; Dopamine D_2 receptor (Grondin, R. (735) 298)

$GABA_B$ receptor; Learned helplessness; Depression model; Rat (Nakagawa, Y. (741) 240)

$GABA_B$ receptor
Antidepressant; $GABA_A$ receptor; Forced swim test; Rat (Nakagawa, Y. (709) 215)

Antinociception; Nucleus raphe magnus; Nucleus reticularis gigantocellularis pars α; GABA; CGP 35348 (Thomas, D.A. (718) 129)

Progesterone; Steroid hormone; Neocortex; Female rat (Al-Dahan, M.I. (727) 40)

Desipramine; $GABA_A$ receptor; Learned helplessness; Rat (Nakagawa, Y. (728) 225)

Tolerance; Dependence; Hippocampus; CA1 pyramidal neuron; CA3 pyramidal neuron; Intracellular electrophysiological recording (Frye, G.D. (735) 239)

$GABA_A$ receptor; Learned helplessness; Depression model; Rat (Nakagawa, Y. (741) 240)

$GABA_A$ receptor complex
[^{3}H]Flunitrazepam binding; [^{3}H]Muscimol binding; Prefrontal cortex; Aging (Ruano, D. (738) 103)

$GABA_A$ receptors
Benzodiazepine site; Low liability to abuse; U-101017; Cloned $GABA_A$ receptors (Im, H.K. (714) 165)

GABA receptor subunit
Lindane; Hexachlorocyclohexane; HCH isomer; Insecticide; Chloride current; Human embryonic kidney cell (Nagata, K. (738) 131)

GABA release
Chronic lead; Dentate gyrus; Glutamate release; Calcium; Microdialysis; Paired-pulse facilitation; Paired-pulse depression; MK-801 (Lasley, S.M. (736) 125)

Dopamine; 6-Hydroxydopamine; Neostriatum; Brain slice; Parkinson's disease (Harsing Jr, L.G. (738) 142)

Rat striatum; Slice; Synaptosome; Arachidonic acid; GABA uptake (Chéramy, A. (742) 185)

GABA uptake
Rat striatum; Slice; Synaptosome; Arachidonic acid; GABA release (Chéramy, A. (742) 185)

Galactocerebroside
Cyclic adenosine 3′, 5′-monophosphate; Differentiation; Forskolin; Proliferation (Yamada, H. (719) 187)

Galanin
Neuropeptide Y; Nerve injury; Pain; Plasticity (Rydh-Rinder, M. (707) 180)

Locus coeruleus; Baroreceptor reflex response; Galanin antiserum; Nucleus tractus solitarii; Rat (Shih, C.-D. (721) 76)

Galanin receptor; Localization; Radioreceptor assay; Immunohistochemistry; Brain; Quail (Azumaya, Y. (727) 187)

Cholinergic; Gene expression; Horizontal limb, diagonal band of Broca; Basal forebrain; In situ hybridization histochemistry (Planas, B. (728) 57)

Calcitonin gene-related peptide; Dual innervation; Esophagus; Rat; Immunohistochemistry (Kuramoto, H. (734) 186)

Galanin receptor; Baroreceptor reflex; Blood pressure; Cardiovascular; Neuropeptide; Brain; Galanin-(1-15) (Díaz, Z. (741) 32)

Galanin antiserum
Galanin; Locus coeruleus; Baroreceptor reflex response; Nucleus tractus solitarii; Rat (Shih, C.-D. (721) 76)

Galanin receptor
Galanin; Localization; Radioreceptor assay; Immunohistochemistry; Brain; Quail (Azumaya, Y. (727) 187)

Galanin; Baroreceptor reflex; Blood pressure; Cardiovascular; Neuropeptide; Brain; Galanin-(1-15) (Díaz, Z. (741) 32)

Galanin receptor antagonist
Clonidine; Desipramine; Dipyrone; Fenfluramine; Antinociception (Selve, N. (735) 177)

Gamma-band
Auditory; Evoked potential; EEG (Brett, B. (721) 155)

Ganglion
Mytilus edulis; Morphine; Nitric oxide; Microglia; Invertebrate (Liu, Y. (722) 125)

Ganglion cell
Opiate receptor-mediated response; Met-enkephalin response; Synaptic activity, prolonged; Stimulus train (Zhang, C. (710) 1)

Spermine; Spermidine; Putrescine; Amacrine cell; Ion channel; Glutamate; NMDA receptor (Valentino, T.L. (713) 278)

Development; Neural retina; Rod photoreceptor; bFGF; Retinoic acid; Opsin; Tissue culture (Zhao, S. (723) 169)

Anterior thalamus; Retina; Fluorescent tracer (Farid Ahmed, A.K.M. (729) 119)

Ganglionectomy
Circannual rhythm; Rat; Suprachiasmatic nucleus; Pinealectomy; Thyroidectomy; Morphometric analysis (Peschke, E. (740) 81)

Ganglioside
Immunocytochemistry; Monoclonal antibody; Differential marker; Neuron (Kawashima, I. (732) 75)

Ganglioside GM_1
Ethanol; Free radical; Oxidative stress; Glutamate antagonist (Bondy, S.C. (716) 165)

GAP-43
Kainate; Astrocyte; Ibotenic acid; Glial fibrillary acidic protein (GFAP); Hippocampus; Dentate gyrus; CA3 (Meberg, P.J. (706) 217)

Neuronal plasticity; Quantitative immunohistochemistry; Aging; Hippocampus; Cerebellum; Olfactory bulb; Cingulate cortex (Casoli, T. (714) 111)

Nerve growth factor; Visual cortex; Synaptophysin; Plasticity; Neurotrophin (Liu, Y. (732) 36)

B-50 / GAP-43
Synaptic stripping; Microglia; Cellular swelling; Immunoreactivity; Side effect (Ulenkate, H.J.L.M. (717) 29)

Gap junction
Suprachiasmatic nucleus; Neuron; Astrocyte; Cell culture; Circadian rhythm (Welsh, D.K. (706) 30)

Singing; HVC; Testosterone; Canary; Plasticity (Gahr, M. (712) 69)

Connexin43; Astrocyte; β/A4 Amyloid; Alzheimer's disease (Nagy, J.I. (717) 173)

Retina; Electrical synapse; Connexin; Vision; Plasticity (McMahon, D.G. (718) 89)

Gastric contractility
Amygdala; Vagus; Thyrotropin-releasing hormone (Morrow, N.S. (735) 141)

Gastric erosion
Fos; Cold; CRF; Dorsal motor nucleus of the vagus; Raphe pallidus; Central amygdala; Nucleus tractus solitarius; Paraventricular nucleus of the hypothalamus (Wang, L. (736) 44)

Gastric secretion
Brain–gut axis; Corticotropin-releasing factor; Locus coeruleus; Autonomic nervous system; Stress (Mönnikes, H. (728) 157)

Gastric vagus
Dorsal motor nucleus of vagus; Osmoreceptor; Hepatic; Portal vein; Water; Hypotonic; Na^+ concentration; Mannitol; Rat (Kobashi, M. (706) 21)

Gastrointestinal motility
Stem cell factor; Enteric nervous system; Interstitial cells of Cajal; Pacemaker cells (Torihashi, S. (738) 323)

Gastropod
Immunocytochemistry; Opioid peptide; Identified neuron; Neuronal map; High-performance liquid chromatography; Radioimmunoassay; Heart (Ewadinger, N.M. (737) 1)

GBR 12909
Voltammetry; Mesocorticolimbic dopamine; Infralimbic cortex; SCH 23390; SKF 38393; Sulpiride; Quinpirole (Doherty, M.D. (715) 86)

GBR 12935
Non-NMDA receptor; Striatum; 6-Hydroxydopamine; Medial forebrain bundle; Dopamine uptake complex (Zavitsanou, K. (731) 132)

GDNF
Transplant; Polymer; Aging; Striatum; Dopamine; Behavior (Emerich, D.F. (736) 99)

Gender
Methamphetamine; Transgenic mouse; Superoxide dismutase; Superoxide radical; Dopamine uptake site; Striatum (Hirata, H. (714) 95)

MPTP; MPP^+; Striatal dopamine; CD-1 mouse; Neurotoxicity (Freyaldenhoven, T.E. (735) 232)

Ascorbate; Glutathione; Free radicals; Decapitation ischemia; Hippocampus; Sex hormone (Kume-Kick, J. (738) 8)

Gender difference
Estrogen; Blood pressure; Heart rate; Serotonin receptor subtype; $5\text{-}HT_{1A}$ receptor; 8-OH-DPAT; Parasympathetic nervous system; Estradiol (Alper, R.H. (716) 224)

Gene expression
Rat development; Neurogenesis; NGF-induced gene; Hybridization, in situ (Iacopetti, P. (707) 293)

Electroshock; Hybridization, in situ; Glutamate; Messenger RNA; Seizure (Porter, R.H.P. (710) 97)

CA1; Carbon monoxide; Heme; Hippocampus; Hypoxia; Ischemia; Ischemic tolerance; Neuronal death; Neuroprotection; Protein synthesis; Stroke (Gage, A.T. (719) 172)

Epilepsy; GABA receptor; Partial seizure; Hippocampal slice (Vick, R.S. (721) 111)

Molecular cloning; Type 1 astrocyte; Intermediate filament; Intermediate filament-associated protein; Hippocampus; Olfactory-limbic system (Schaar, D.G. (721) 217)

Exercise; Physical activity; Neural activity; Neurotrophin; Environmental stimulus; Brain plasticity (Neeper, S.A. (726) 49)

Galanin; Cholinergic; Horizontal limb, diagonal band of Broca; Basal forebrain; In situ hybridization histochemistry (Planas, B. (728) 57)

Heat stress; Neuroprotection; Excitotoxicity; Heat shock protein; Cultured neuron (Snider, B.J. (729) 273)

Rat; Maternal deprivation; Development; Suckling; Hippocampus; Glucocorticoid receptor; Mineralocorticoid receptor (Vázquez, D.M. (731) 79)

Suprachiasmatic nucleus; Circadian rhythm; *junB*; Immediate-early gene; Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (732) 215)

Heart failure; Nitric oxide synthase; Hypothalamus; Brainstem; Sympathetic activity (Patel, K.P. (734) 109)

Suprachiasmatic nucleus; Circadian rhythm; *fosB*; c-*fos*; Immediate-early gene; Light; Entrainment; Transcription regulation (Guido, M.E. (739) 132)

Gene induction
Neonate; Blood pressure; Immediate-early response gene; Functional activity; Autonomic nervous system; Catecholamine (Ruggiero, D.A. (706) 199)

Gene regulation
Promoter; Transcription; Cloning (King, P.H. (723) 141)

Gene structure
Cyclic adenosine monophosphate-regulated phosphoprotein-21 (ARPP-21); Limbic striatum; Promoter; Transfection; Repression (Ivkovic, S. (709) 10)

Gene therapy
Viral vector; Adeno-associated virus; Inferior colliculus; Hippocampus (McCown, T.J. (713) 99)

Interleukin-2; Blood–brain barrier; Brain tumor; Microglia; Implantation (Nam, M. (731) 161)

Genetically epilepsy-prone rat
Kindling; Audiogenic seizure; Neuron; Inferior colliculus (N'Gouemo, P. (710) 92)

Epilepsy; CGP 37849; CGP 39551; Excitatory amino acid antagonist; Tolerance; Anticonvulsant; Audiogenic seizure (De Sarro, G. (734) 91)

Genetically epilepsy-prone rat strain 9 (GEPR-9)
Epilepsy; Serotonin; Electrophysiology (Salgado-Commissariat, D. (743) 212)

Genetic control
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Gene transcription
Cyclic response element-binding protein; Kainic acid; Astrocyte (Ferrer, I. (712) 159)

Geniculohypothalamic tract
Lateral geniculate nucleus; Intergeniculate leaflet; Suprachiasmatic nucleus; Circadian rhythm; Neuropeptide Y; Cat (Pu, M. (725) 247)

Gerbil
Cystatin C; Apolipoprotein E; GFAP; Immunocytochemistry; Ischemia; Hippocampus (Ishimaru, H. (709) 155)

Phenylethanolamine-*N*-methyltransferase; Corticotropin-releasing factor; Neurotensin; External cuneate nucleus (Lan, C.-T. (711) 211)

Bax; Bcl-2; CA1; Apoptosis; Delayed neuronal death (Hara, A. (711) 249)

Cerebral ischemia; Ischemic tolerance; HSP70; Microtubule-associated protein 2; Inclined plane (Kitagawa, K. (716) 39)

Ischemia; Neuronal damage; Recovery of function; Felbamate (Shuaib, A. (727) 65)

Spinal nucleus of the bulbocavernosus; Androgen; Cell death (Forger, N.G. (735) 119)

Nitric oxide; Nitric oxide synthase inhibitor; Hyperthermia; Glutamate; Delayed neuronal death; Hippocampus (Kohno, K. (738) 275)

Transient global ischemia; Ischemic tolerance; Hyperbaric oxygen; Delayed neuronal death (Wada, K. (740) 15)

GFAP
Cystatin C; Apolipoprotein E; Immunocytochemistry; Ischemia; Hippocampus; Gerbil (Ishimaru, H. (709) 155)

Constitutive NOS; Nitric oxide; Weak aldehyde fixation (Gabbott, P.L.A. (714) 135)

In situ hybridization; MK-801; NBQX; Permanent MCAO; SGP-2; Clusterin (Yamashita, K. (735) 285)

Subventricular zone; Precursor cell; Proliferation; [^{3}H]Thymidine; Migration; Lesion (Weinstein, D.E. (743) 11)

Giant dopamine neuron
Dopamine exocytosis; Inter-spike interval; Bursting pattern; Burst; Distribution; Cell body; *Planorbis corneus* (Chen, G. (733) 119)

Ginkgo biloba extract
Antioxidant; Brain neuron; Hydrogen peroxide; Oxidative stress (Oyama, Y. (712) 349)

Glia
Transforming growth factor α; Cholinergic neuron; GABAergic neuron; Epidermal growth factor; Septal cell culture; Neurotrophic factor (Mazzoni, I.E. (707) 88)

Astrocyte; SC1; SPARC; Reactive astrocytosis; Extracellular matrix (McKinnon, P.J. (709) 27)

Dopamine neuron; Basic fibroblast growth factor; Neurotrophic factor; Cell culture; Mesencephalon (Hou, J.-G.G. (724) 145)

Astrocyte; Opioid peptide; Neuron–glia interaction; Glucocorticoid; Cyclic AMP; Preproenkephalin (McMillian, M.K. (730) 67)

Astrocyte; Glial fibrillary acidic protein; Axotomy; Red nucleus; Rubrospinal (Tseng, G.-F. (742) 115)

Glial cell
Ultrastructure; Stereology; Calcitonin gene-related peptide (CGRP) (Carlton, S.M. (711) 16)

Apoptosis; Neuron; Development; Immunohistochemistry; Western blotting (Mizuguchi, M. (712) 281)

Potassium; Na/K pump; Oligodendrocyte; Patch clamp; N20.1 cell line; Potassium homeostasis (Dobretsov, M. (724) 103)

Cell line; Differentiation; Dopamine; Neurotropic factor (Heller, A. (725) 132)

Kainic acid; Excitotoxin; Brain; Nitric oxide synthase; NADPH diaphorase; Endothelial cell (Lei, D.-L. (730) 199)

Auditory system; Cochlear implant; Congenital deafness; Transneuronal degeneration (Saada, A.A. (736) 315)

Nitric oxide; Nitric oxide synthase; Inducible nitric oxide synthase; Hypoxia; Interferon-γ; Interleukin-1β (Kawase, M. (738) 319)

Glial cell line derived neurotrophic factor
Transplantation Immunology; Brain derived neurotrophic factor; Neurotrophin-3; Ramified microglia; Reactive microglia (Shinoda, M. (722) 153)

Glial fibrillary acidic protein (GFAP)
GAP-43; Kainate; Astrocyte; Ibotenic acid; Hippocampus; Dentate gyrus; CA3 (Meberg, P.J. (706) 217)

Glial fibrillary acidic protein
Growth inhibitory factor; Ischemia; Reactive astrocyte; Regeneration; Metallothionein (Inuzuka, T. (709) 151)

Sensorimotor cortex; Dendritic branching; Dendritic spine; Use-dependent neural growth; Astrocyte; Microglia; Postural asymmetry (Forgie, M.L. (710) 249)

Androgen; Progestagen; 5α-Reductase; Astrocyte; Rat; Central nervous system (Melcangi, R.C. (711) 10)

Vimentin; Immunohistochemistry; Dentate gyrus; Hilus; Seizure (Stringer, J.L. (717) 147)

Dephosphophorylation; Okadaic acid; Microcystin-LR; Calyculin A; Hippocampal slice (Vinadé, L. (732) 195)

Brain injury; Astrocyte; Glial fibrillary acidic protein mRNA; Basic fibroblast growth factor; Rat (Eclancher, F. (737) 201)

Ibogaine; Purkinje cell; Cerebellum; Neurotoxicity; Zebrin; Fink-Heimer stain (Molinari, H.H. (737) 255)

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Aggregating brain cell culture; Developmental neurotoxicity; Mercury chloride; Monomethylmercury chloride; Microglia; Cell type-specific enzyme (Monnet-Tschudi, F. (741) 52)

Astrocyte; Axotomy; Red nucleus; Rubrospinal; Glia (Tseng, G.-F. (742) 115)

Glial fibrillary acidic protein mRNA
Brain injury; Astrocyte; Glial fibrillary acidic protein; Basic fibroblast growth factor; Rat (Eclancher, F. (737) 201)

Glioma
Inhibitor; Protein kinase C; Tyrosine kinase; Signal transduction (Baltuch, G.H. (710) 143)

Gliosis
Growth inhibitory factor; Stab wound; Reactive astrocyte; Immunohistochemistry; Confocal laser scan microscope (Hozumi, I. (741) 197)

Gliotoxin
Uptake; Glutamate; System x_c^-; Excitotoxin; Quisqualate (Tsai, M.J. (741) 166)

Global cerebral ischemia
Cycloheximide; Protein synthesis inhibition; Brain slice (Buchkremer-Ratzmann, I. (743) 329)

Globus pallidus
Motor cortex; Basal ganglia; Thalamus; Supplementary motor area; Monkey (Kayahara, T. (706) 337)

Glutamate; Striatum; Fos; Recovery; Frontal cortex; Medial agranular cortex; Dopamine; Neglect; Amphetamine; Immediate early gene (Vargo, J.M. (716) 207)

Glomus cell
Cytosolic calcium ($[Ca^{2+}]_i$); Pheochromocytoma 12 cell; Vascular smooth muscle cell (A7r5); Carotid body; Hypoxia (Bright, G.R. (706) 297)

Carotid body; Intercellular coupling; Calcium; A23187; BAPTA/AM; Dimethylsulfoxide (Abudara, V. (725) 125)

Chemoreceptor; Hypoxia; K current; Oxygen; Sheath cell (Chou, C.-L. (742) 34)

Glucocorticoid
Interleukin-6 receptor; Gp 130; c-*fos*; Reverse transcriptase–polymerase chain reaction; Hybridization, in situ; PC12 cell; Sympathetic neu-

ron; Tumor necrosis factor α; Differentiation (März, P. (706) 71)

Feeding; Drinking; Restraint; Stress; Sensitization; Hypothalamic–pituitary–adrenal axis; Corticosterone; Adrenal hormone; Rat (Badiani, A. (710) 35)

Dorsal horn; Nociception; Nitric oxide; Nitric oxide synthase; Brainstem (Hathaway, C.B. (712) 143)

Aging; Depression; Dexamethasone; Serotonin transporter (Fumagalli, F. (719) 225)

Astrocyte; Glia; Opioid peptide; Neuron–glia interaction; Cyclic AMP; Preproenkephalin (McMillian, M.K. (730) 67)

Sympathetic nerve; Spleen; Ventromedial hypothalamus; Mitogenic response; Lymphocyte (Okamoto, S. (739) 308)

Cerebral ischemia; Hypoxia; Neuroprotection; Dexamethasone; RU38486; Corticosterone; Infant (Tuor, U.I. (743) 258)

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mGluR5
mGluR3; Retina; Metabotropic glutamate receptor; Astrocyte (Jeffery, G. (741) 75)

GLUT1
Glucose transporter; Retinopathy; Blood–retinal barrier; Retinal microvasculature (Kumagai, A.K. (706) 315)

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Glutamate receptor antagonist
Na^+/K^+-ATPase inhibitor; Ouabain; Excitotoxin; Glutamate receptor agonist; Neuronal cytotoxicity (Lees, G.J. (714) 145)

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Glutamine synthetase
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Griffonia simplicifolia **isolectin B_4 (GSA I-B_4)**
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[^{3}H]D-Aspartate
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[^{3}H]DSLET
δ-Opioid receptor; Autoradiography; Receptor subtype; [^{3}H]DPDPE; Rat brain (Hiller, J.M. (719) 85)

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Heat stress
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Bilirubin; Heat shock protein; Heme-oxygenase; Stress protein; Subarachnoid hemorrhage (Matz, P. (713) 211)

Hemorrhage
Choline; Oxytocin; Muscarinic; Nicotinic; Hemicholinium-3; Osmotic stimulation (Savci, V. (709) 97)

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Hemicholinium-3 binding; Choline acetyltransferase; Muscarinic receptor; Tyrosine hydroxylase; Septum; Developmental lead-exposure; Fimbria-fornix transection; Superior cervical ganglionectomy (Bielarczyk, H. (708) 108)

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$GABA_A$ receptor; Ethanol withdrawal; Kindling; Pentylenetetrazol (Kang, M. (709) 221)

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Dopamine; D_1 receptor; [^{3}H]SCH23390; Binding; Insect; Brain (Kokay, I.C. (706) 47)

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5-HT_{2A}
Chromosome; Open field; Serotonin (5-HT); 5-HT_{1A}; 5-HT_{1B}; 5-HT_{2C}; Mapping (Clément, Y. (709) 229)

5-HT_{2C}
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5-HT agonist
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5-HT_3-like receptor
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5-HT_{1A} mRNA
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5-HT neuron
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5-HT receptor
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5-HT_{1A} receptor
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Hippocampus; Working memory; NAN-190; Acetylcholine; Scopolamine; NMDA receptor; (±)-3-(2-Carboxypiperazin-4-yl)propyl-1-phosphonic acid (Ohno, M. (736) 180)

Serotonin; 5-$HT_{2A/2C}$ receptor; Spinal cord; α-Motoneuron; Primary afferent; Monosynaptic reflex (Hasegawa, Y. (738) 158)

Circadian rhythm; Suprachiasmatic nucleus; Methamphetamine; NAN-190; Serotonin (Moriya, T. (740) 261)

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R(+)-8-OH-DPAT; D-Amphetamine; Serotonin; Dopamine; Prefrontal cortex; Anxiety; Microdialysis; Rat (Kuroki, T. (743) 357)

Tachykinin; Substance P; Opioid; *p*-Chlorophenylalanine; Basal ganglia; 5-HT_2 receptor (Walker, P.D. (732) 25)

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5-$HT_{1D\beta}$ receptor; Serotonin; Serotonin transporter; Serotonin receptor; 5,7-Dihydroxytryptamine; Citalopram; Dorsal raphe; Autoreceptor (Neumaier, J.F. (722) 50)

5-$HT_{1D\beta}$ receptor
5-HT_{1B} receptor; Serotonin; Serotonin transporter; Serotonin receptor; 5,7-Dihydroxytryptamine; Citalopram; Dorsal raphe; Autoreceptor (Neumaier, J.F. (722) 50)

5-HT_2 receptor
Tachykinin; Substance P; Opioid; *p*-Chlorophenylalanine; Basal ganglia; 5-HT_{1A} receptor (Walker, P.D. (732) 25)

5-$HT_{2A/2C}$ receptor
Serotonin; 5-HT_{1A} receptor; Spinal cord; α-Motoneuron; Primary afferent; Monosynaptic reflex (Hasegawa, Y. (738) 158)

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5-HT_4 receptor
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5-HT_3 receptor agonist
Medial prefrontal cortex; 5-HT_3-like receptor; Phosphoinositide hydrolysis; PBG chlorinated derivative; SR 57227A (Edwards, E. (733) 21)

5-HT receptors
Neuropeptide Y; Paraventricular nucleus of the hypothalamus; Corticotropin releasing factor; Feeding (Grignaschi, G. (708) 173)

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Cytokine; Interleukin-6; Nerve growth factor; Traumatic brain injury; Astrocyte (Kossmann, T. (713) 143)

Anticipatory postural adjustment; Arm movement; H-reflex (Kasai, T. (714) 125)

Magnetoencephalography; Somatosensory cortex; Movement-related magnetic field; Anesthesia; Movement-evoked field I; Motor field (Kristeva-Feige, R. (714) 201)

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AMPA; Receptor; Nucleus basalis; Cholinergic; Glutamate; Aging; Alzheimer's disease (Ikonomovic, M.D. (716) 229)

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Pituitary adenylate cyclase activating polypeptide; Dorsal horn; Intermediolateral cell column; Dorsal root ganglion; Calcitonin gene-related peptide; Substance P (Dun, E.C. (721) 233)

NADPH diaphorase; Acetylcholinesterase; Intracardiac plexus; Monkey; Dog; Right atrium (Yoshida, K. (724) 256)

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[^{3}H]WIN 35,428; Dopamine uptake site; Cocaine binding site (Allard, P. (706) 347)

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Cloning; Northern blot; Selective vulnerability; Energy metabolism; Alzheimer's disease (Fukuyama, R. (713) 290)

Regional cerebral blood flow; Positron emission tomography; Self-paced movement; Somatotopical organization (Kawashima, R. (716) 141)

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Neurodegenerative disorder; Calcium-binding protein; Neurokinin receptor; Basal ganglia; Striatum (Cicchetti, F. (730) 232)

Huntington's disease
Superoxide dismutase; Oxygen free radical; Ischemia; Excitotoxicity; Neurodegeneration; Basal ganglia (Medina, L. (708) 59)

Excitotoxicity ; Mitochondria; Nitric oxide synthase; NMDA; Basal ganglia; Chronic administration (Bazzett, T.J. (718) 228)

N-Methyl-D-aspartate; Quinolinic acid; Excitotoxicity; Apoptosis; DNA fragmentation; Neurodegeneration (Qin, Z.-H. (725) 166)

Human hypothalamus; Nucleus tuberalis lateralis (NTL); Somatostatin; Microwave pretreatment (Timmers, H.J.L.M. (728) 141)

Acute phase protein; Alzheimer's disease; Ceruloplasmin; Copper; Parkinson's disease; Progressive supranuclear palsy (Loeffler, D.A. (738) 265)

HVC
Singing; Testosterone; Gap-junction; Canary; Plasticity (Gahr, M. (712) 69)

[^{3}H]WIN 35,428
Dopamine uptake site; Cocaine binding site; Human brain (Allard, P. (706) 347)

Hyaluronan receptor
Nerve cell; Brain; Plasticity (Fuxe, K. (736) 329)

Hybrid cell
Adrenomedullin; Amylin; Calcitonin; Calcitonin gene-related peptide; Receptor; Astrocyte (Zimmermann, U. (724) 238)

Hybridization histochemistry, in situ
Periaqueductal gray; proTRH; Opiate withdrawal; Immunohistochemistry; Rat (Légrádi, G. (729) 10)

Calcium binding protein; Calretinin; Double immunohistochemical labeling; Glutamate receptor; Reticular formation (Winsky, L. (741) 123)

Hybridization, in situ
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Rat development; Neurogenesis; Gene expression; NGF-induced gene (Iacopetti, P. (707) 293)

Electroshock; Gene expression; Glutamate; Messenger RNA; Seizure (Porter, R.H.P. (710) 97)

Nitric oxide; Nitric oxide synthase; Immobilization stress; Paraventricular nucleus; Pituitary; Adrenal cortex; Hypothalamic–pituitary–adrenal axis; Adrenal medulla (Kishimoto, J. (720) 159)

Differentiation; Aldosterone; Ru28362; mRNA; Tissue culture (Nishi, M. (722) 190)

bFGF; Tenascin; Laminin; Hemitransection; Rat brain; mRNA (Lippoldt, A. (730) 1)

Cyclooxygenase-2; Interleukin-1; Intercellular adhesion molecule-1; Type-1 interleukin-1 receptor; Fever; Endothelial cell (Cao, C. (733) 263)

Acetylcholine; Muscarinic receptor; Neostriatum; Suicide transport; Volkensin (Harrison, M.B. (734) 323)

Vestibular; Efferent; Hair cell; Nicotinic acetylcholine receptor; Scarpa's ganglion (Hiel, H. (738) 347)

Heat shock 70 gene expression; Tissue culture; Immunohistochemistry; Rat cerebellum; Neuron; Microglia; Astrocyte (Voisin, P.J. (739) 215)

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Hybridoma
Somatic cell fusion; Neuron; Dorsal root ganglia; Emetine; Actinomycin D (Hikawa, N. (734) 345)

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Hydrocephalus
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Hydroxamate
Quisqualate; Glutamate; Sensitization; Hippocampus; Excitatory amino acid (Roon, R.J. (734) 223)

8-Hydroxy-2-(di-*n*-propylamino)tetralin (8-OH-DPAT)
Median raphe nucleus; Hippocampus; Theta rhythm; Septum; Serotonin (Kinney, G.G. (708) 116)

6-Hydroxydopamine
Sprouting; Striatum; Tyrosine hydroxylase; Dopamine β-hydroxylase; Ultrastructure (Blanchard, V. (709) 319)

Dopamine; Locomotion; Treadmill; Striatum; Neural transplantation; Dynamic regulation; In vivo microdialysis (Hattori, S. (710) 45)

Stress; Dopamine; Laterality; Medial prefrontal cortex; Nucleus accumbens; Striatum (Carlson, J.N. (711) 1)

Cocaine; Heroin; Self-administration; Initiation phase; Motivational aspects; Nucleus accumbens; Dopamine (Gerrits, M.A.F.M. (713) 114)

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2-Deoxyglucose; Hyperglycemia; Hypothalamus; Microdialysis; Acetylcholine; Norepinephrine; Pentobarbital (Takahashi, A. (734) 116)

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8-Hydroxy-DPAT
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Hydroxyindole-*O*-methyltransferase
Melatonin; Y-79 retinoblastoma; Serum; S-antigen (Bernard, M. (727) 118)

4-Hydroxynonenal
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2-Hydroxypropyl-β-cyclodextrin
Cannabinoid; Substantia nigra; Striatonigral; Iontophoresis; Local drug delivery; γ-Aminobutyric acid inhibition (Tersigni, T.J. (733) 184)

5-Hydroxytryptamine$_3$ receptor
State-dependent learning; Ethanol; *N*-Methyl-D-aspartate receptor complex; Rat (Nakagawa, Y. (706) 227)

5-Hydroxytryptamine uptake
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5-Hydroxytryptophan
Serotonin; Stress; Neurotensin; Brain; Rat (Dilts, R.P. (742) 294)

Hyoglossus
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Hyperactivity
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N-methyl-D-aspartate (NMDA) receptor antagonist; Non-competitive; Allodynia; Spontaneous pain; Nociception; Intraperitoneal (Qian, J. (715) 51)

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Thymulin; Endotoxin; Inflammation; Neuroimmunology (Safieh-Garabedian, B. (717) 179)

Analgesia; Allodynia; Capsaicin; C-fiber; Cold; Mechanical stimulation; Neuropathic pain; Spinal cord injury (Hao, J.-X. (722) 177)

Locus coeruleus; Inflammation (Tsuruoka, M. (726) 233)

Monoamine; Glycine; γ-Aminobutyric acid; Neuropathy; Pain; Spinal cord (Satoh, O. (728) 27)

Interleukin-1β; Diclofenac; α-Melanocyte-stimulating hormone; Prostaglandin; Cytokine; Central nervous system (Oka, T. (736) 237)

Mustard oil; Neurotensin; Cholecystokinin; Rostral ventromedial medulla; Descending pain facilitation (Urban, M.O. (737) 83)

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Locus coeruleus; Inflammation; Naloxone (Tsuruoka, M. (743) 86)

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Hypercapnia
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Hyperexcitability
Plasticity; Granule cell; Rat; In situ hybridization; Epilepsy; Growth factor; Hippocampus (Elmér, E. (712) 19)

Hyperglycemia
MK-801; Morphine; Rat (Meijerink, W.J.H.J. (706) 123)

Cerebral ischemia; Energy metabolism; Intracellular pH; Postischemic alkalinization (Katsura, K.-i. (726) 57)

2-Deoxyglucose; Hypothalamus; Microdialysis; Acetylcholine; Norepinephrine; Pentobarbital; 6-Hydroxydopamine (Takahashi, A. (734) 116)

Hyperosmotic stress
Hypothalamo-neurohypophysial system; Hypophysial stalk transection; Supraoptic nucleus; Vasopressin; Polydipsia (Huang, Y.-S. (732) 95)

Hyperphagia
Brainstem; Taste; Appetite; Palatability; Food intake; Feeding; Benzodiazepine; Diazepam; Cerebral ventricle; Hindbrain; Anxiolytic (Peciña, S. (727) 22)

Prolactin; Rat; Female; Central administration; Ovariectomy; Food intake; Food restriction (Sauvé, D. (729) 75)

Hyper-phosphorylation
Dystrophic neurite; Paired helical filament; Neurofilament; Senile plaque; Neuropathology; Alzheimer's disease (Su, J.H. (739) 79)

Hyperpolarization
t-ACPD; L(+)-2-amino-3-phosphonoproprionic acid; (+)-α-methyl-4-carboxyphenyl-glycine; Carbachol; Depolarization (Erdemli, G. (723) 1)

Hyperreflexia
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Hypertension
Cytochrome P45011B1; Cerebral cortex; In situ hybridization; Neurosteroid; Transgenic rat (Erdmann, B. (733) 73)

Neurophypophysis; Paraventricular nucleus of the hypothalamus; Aortic depressor nerve; Central cardiovascular regulation; Fiuid balance (Ciriello, J. (739) 52)

Hyperthermia
Infant convulsion; Pentylenetetrazol; Morris water maze; Locomotor; Activity; Convulsion susceptibility (Kornelsen, R.A. (706) 155)

Heat shock protein; hsc70; In situ hybridization (Foster, J. (724) 73)

Hippocampus; Synaptic Transmission; CA1; CA3; LTP; Kindling; Rat (Minamiura, Y. (732) 209)

Nitric oxide; Nitric oxide synthase inhibitor; Glutamate; Delayed neuronal death; Hippocampus; Gerbil (Kohno, K. (738) 275)

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Subfornical organ; Supraoptic nucleus; Paraventricular hypothalamus; Osmoreception (Han, L. (708) 45)

Hypertonic NaCl solution
Area postrema; Hypovolemia; Sucrose; Thirst; Water intake (Curtis, K.S. (726) 31)

Hypobaric hypoxia
Cytochrome oxidase histochemistry; Hypometabolism; Hypoxic adaptation; Brain energy metabolism (LaManna, J.C. (720) 1)

Hypocalcemia
Brain injury; Hypoxia; Ischemia; Development; Therapy; Neonate (Sola, A. (741) 294)

Hypoglossal
Motoneuron; Styloglossus; Hyoglossus; Tongue; Cholera toxin-HRP; Rat (Guo, Y. (728) 277)

Hypometabolism
Cytochrome oxidase histochemistry; Hypobaric hypoxia; Hypoxic adaptation; Brain energy metabolism (LaManna, J.C. (720) 1)

Hypomyelination
Apoptosis; DNA fragmentation; Olidodendroglial cell; Neuroglial cell; Terminal transferase; Lectin histochemistry (Vela, J.M. (712) 134)

Hypo-osmotic stress
Choroid plexus; Taurine; Volume regulation; Calmodulin antagonist; Niflumic acid (Keep, R.F. (715) 17)

Hypophysial stalk transection
Hyperosmotic stress; Hypothalamo-neurohypophysial system; Supraoptic nucleus; Vasopressin; Polydipsia (Huang, Y.-S. (732) 95)

Hypothalamic-neurohypophysial system
Paraventricular nucleus; Supraoptic nucleus; HPA axis (Wotjak, C.T. (726) 237)

Hypothalamic paraventricular nucleus
Fos-like immunoreactivity; Registry number 72026-83-6; Bed nucleus of the stria terminalis (Rowland, N.E. (717) 189)

Hypothalamic–pituitary–adrenal axis
Opioid peptide; Corticotropin-releasing factor; c-*fos*; In situ hybridization (Wang, X.-Q. (707) 189)

Feeding; Drinking; Restraint; Stress; Sensitization; Corticosterone; Adrenal hormone; Glucocorticoid; Rat (Badiani, A. (710) 35)

Hindbrain; Conditioned taste aversion; Endocrine; Behavioral toxicity (Edmonds, B.K. (712) 127)

Nitric oxide; Nitric oxide synthase; Immobilization stress; Paraventricular nucleus; Pituitary; Adrenal cortex; Adrenal medulla; Hybridization, in situ (Kishimoto, J. (720) 159)

Interleukin-1β; Immune; Adrenocorticotropin; Cytokine; Regulation; Vagus (Kapcala, L.P. (728) 247)

Hypothalamo-hypophysial
Neuroendocrinology; Osmoregulation; Neurohypophysis; Fluid balance (Vanhatalo, S. (740) 253)

Hypothalamo-neurohypophysial system
Hyperosmotic stress; Hypophysial stalk transection; Supraoptic nucleus; Vasopressin; Polydipsia (Huang, Y.-S. (732) 95)

Hypothalamo-pituitary-adrenal axis
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Hypothalamus
β-Endorphin; Cell culture; Adenylyl cyclase; Ascorbic acid (Yang, Z. (706) 243)

Starvation; Heart; Sympathetic nervous system; Norepinephrine; Rat (Gotoh, M. (706) 351)

Nitric oxide synthase; Nitric oxide; Circadian rhythm; Sleep; Central nervous system; Protein level; Rat (Ayers, N.A. (707) 127)

Cardiovascular regulation; Body fluid homeostasis; Circumventricular organ (Rosas-Arellano, M.P. (707) 308)

Brain-derived neurotrophic factor; Norepinephrine; Dopamine; Serotonin; Raphe nucleus; Periaqueductal gray; Hippocampus; Cortex; Nucleus accumbens; Substantia nigra (Siuciak, J.A. (710) 11)

Amino acid transporter; Magnocellular neuroendocrine neuron; Immunohistochemistry; Rat (Hisano, S. (710) 299)

Angiotensin receptor; Circumventricular organ; Subfornical organ; Adrenal gland; DUP-753; PD-123319; CGP-42112A; Domestic mallard; Drinking; Bird; Osmoregulation (Schäfer, F. (711) 118)

Apoptosis; Endotoxin; Hippocampus; Interleukin-1β; Lipopolysaccharide; Pituitary (Tingsborg, S. (712) 153)

Interleukin-1β immunoreactivity; Opiate; Immunocytochemistry (Patel, N.A. (712) 340)

Anxiety; Fos; Stress; Anxiety; Animal model; Medial prefrontal cortex; Lateral septum; Amygdala; Limbic cortex (Duncan, G.E. (713) 79)

Predatory attack behavior; Medial amygdala; Stria terminalis; Substance P; Substance P (NK_1) receptor antagonist CP96,345; Cat (Han, Y. (716) 59)

Predatory attack behavior; Medial amygdala; GABA; $GABA_A$ receptor; Muscimol; Bicuculline; Cat (Han, Y. (716) 72)

Central nervous system; Gut; Peripheral organ; Truncal vagotomy; Feeding; Glycoprivation; Glucose utilization (Morita, H. (719) 112)

Rabbit; Vasopressin; Oxytocin; Immunochemistry; Pregnancy; Parturition; Estrus; Maternal behavior (Caba, M. (720) 7)

Alcohol; ACTH; Corticotropin-releasing factor receptor; Antagonist; Rat (Rivier, C. (721) 83)

γ-Aminobutyric acid; Amygdala; Blood pressure; Heart rate; Rat (Gören, Z. (722) 118)

Neuropeptide Y; *p*-Chlorophenylalanine; Serotonin (Dryden, S. (724) 232)

Estrogen receptor; Progesterone receptor; Sex difference; Preoptic area; Autoradiography; Estrogen; Guinea pig (Brown, T.J. (725) 37)

Alcohol; ACTH; Corticotropin-releasing factor; Vasopressin; Rat (Rivier, C. (726) 1)

Cobalt protoporphyrin; Intracerebroventricular injection; Feeding; Neuropeptide Y (Choi, S.J. (729) 223)

Preproenkephalin; mRNA; Opioid; Nitrous oxide; Met-enkephalin (Agarwal, R.K. (730) 47)

Pyroglutamyl peptidase I; Asymmetry; Retina; Light; Darkness; Rat (Sánchez, B. (731) 254)

Adrenergic receptor; Septal-hippocampal pathway; Tyrosine; Cognitive function; Mouse; Eight-arm maze; Diet restriction; Anorexia nervosa (Avraham, Y. (732) 133)

γ-Aminobutyric acid turnover; Gonadal steroid; Gonadotropin-releasing hormone; Medial preoptic nucleus; Rat (Grattan, D.R. (733) 46)

Heart failure; Nitric oxide synthase; Gene expression; Brainstem; Sympathetic activity (Patel, K.P. (734) 109)

2-Deoxyglucose; Hyperglycemia; Microdialysis; Acetylcholine; Norepinephrine; Pentobarbital; 6-Hydroxydopamine (Takahashi, A. (734) 116)

[^{3}H]Nisoxetine; [^{3}H]Cyanoimipramine; Autoradiography; Limbic forebrain (Belej, T. (736) 287)

Periaqueductal gray; Medial preoptic nucleus; Blood pressure; Pain (Behbehani, M.M. (740) 141)

Nitric oxide; *N*-Methyl-D-aspartate; Sodium nitroprusside; Estrogen; Progesterone; Norepinephrine; Preoptic area (Chu, H.-P. (741) 60)

c-*Fos*; Milk-ejection reflex; Dorsal root ganglia; Spinal cord; Sheep (Tsingotjidou, A. (741) 309)

Melatonin; Estrogen receptor; Medical preoptic area; Hamster (Hill, S.M. (742) 107)

Estradiol; Ventral premammillary nucleus; Dorsal premammillary nucleus; μ Opioid receptors (Brown, L.L. (742) 347)

Corticotropin-releasing factor; Fos; Seizure; Amygdala; Stria terminalis (Piekut, D. (743) 63)

Hypothalamus-pituitary-adrenal (HPA) axis
Lactation; Afferent, (nor)adrenergic; Stress; Paraventricular nucleus (Toufexis, D.J. (737) 71)

Hypotonic
Dorsal motor nucleus of vagus; Gastric vagus; Osmoreceptor; Hepatic; Portal vein; Water; Na^+ concentration; Mannitol; Rat (Kobashi, M. (706) 21)

Hypotonicity
Methylmercury; Astrocyte; Metallothionein; Regulatory volume decrease; Taurine (Vitarella, D. (738) 213)

Hypovolemia
Area postrema; Hypertonic NaCl solution; Sucrose; Thirst; Water intake (Curtis, K.S. (726) 31)

AT-1 receptor antagonist; Magnocellular hypothalamic nuclei; Lamina terminalis; EXP 3174; Isoproterenol; Polyethylene glycol (Rowland, N.E. (742) 253)

Hypoxia
Cytosolic calcium ($[Ca^{2+}]_i$); Glomus cell; Pheochromocytoma 12 cell; Vascular smooth muscle cell (A7r5); Carotid body (Bright, G.R. (706) 297)

Barbiturate; Methohexital; Thiopental; Blood-brain barrier; Brain microvascular endothelial cell; Permeability (Fischer, S. (707) 47)

Neuroprotection; Hypoxic depolarization; Glutamate receptor; Penumbra (Chen, Z.-F. (708) 82)

Cytochrome oxidase; Hypercapnia; Metabolic hypothesis; Photo-dissociation (Osanai, S. (711) 56)

Brain; ischemia; Oxidation-reduction (redox); Perinatal; Rat (Yager, J.Y. (712) 230)

Focal cerebral ischemia; Excitotoxicity; Apoptosis; Glutamate; NMDA (Du, C. (718) 233)

CA1; Carbon monoxide; Gene expression; Heme; Hippocampus; Ischemia; Ischemic tolerance; Neuronal death; Neuroprotection; Protein synthesis; Stroke (Gage, A.T. (719) 172)

Osmolality; Hippocampal slice; Cell swelling; CGS-19755; NMDA receptor (Payne, R.S. (723) 210)

Penumbra; Adenosine; Excitatory synaptic transmission; Neuroprotection; Rat; Hippocampus (Arlinghaus, L. (724) 265)

Heat shock protein; Hypoxia-ischemia; Glutamate (Pearigen, P. (725) 184)

Blood pressure; Sympathetic; Phrenic; Respiration; MK-801 (Miyawaki, T. (726) 64)

Catecholamine; Heat shock protein; Newborn; Brain (Murphy, S.J. (727) 145)

Brain; NMDA receptor; CPP (Fritz, K.I. (729) 66)

Newborn; Brain injury; Na^+,K^+-ATPase; Outcome; Energy metabolism (Rosenkrantz, T.S. (730) 52)

Calcium; Cyanide; NMDA antagonist; Neurotoxicity; Fura-2 (Ferger, D. (732) 87)

Adenosine; GABA; Adenosine A_1 receptor; $GABA_A$ receptor; Hippocampus; Excitatory postsynaptic potential (Lucchi, R. (732) 261)

Nucleus tractus solitarius; Chemoreceptor pathway; Catecholaminergic nuclei; Baroreceptor pathway; Tyrosine hydroxylase; Quantitative radioimmunohistochemistry (Pépin, J.L. (733) 1)

NMDA receptor; Glycine binding; Development; Brain; Fetus (Razdan, B. (733) 15)

Rat; Neuropeptide Y; Substance P; Radioimmunoassay; Chemoreflex (Poncet, L. (733) 64)

Nitric oxide; Nitric oxide synthase; Inducible nitric oxide synthase; Glial cell; Interferon-γ; Interleukin-1β (Kawase, M. (738) 319)

Dopamine; Monoamine; Striatum; Microdialysis; Immature brain; Anoxia (Nakajima, W. (740) 316)

Apnea; Newborn; Cerebral oxygenation; Phosphorescence (Tammela, O.K.T. (741) 160)

Human brain slice; DC potential; Anoxic terminal negativity (Köhling, R. (741) 174)

Brain injury; Ischemia; Development; Therapy; Neonate; Hypocalcemia (Sola, A. (741) 294)

Chemoreceptor; Glomus cell; K current; Oxygen; Sheath cell (Chou, C.-L. (742) 34)

CA1 neuron; Culture; Glutamate; Nitric oxide; Platelet activating factor; Postnatal; Rat (Ohmori, T. (743) 109)

Cerebral ischemia; Neuroprotection; Dexamethasone; Glucocorticoid; RU38486; Corticosterone; Infant (Tuor, U.I. (743) 258)

Hypoxia-ischemia
Development; Striatum; Acetylcholine; Cholinergic; Microdialysis (Oo, T.F. (706) 145)

Brain; Immaturity; Neurotransmitters; Status epilepticus (Cataltepe, O. (709) 326)

Hypoxia; Heat shock protein; Glutamate (Pearigen, P. (725) 184)

Acidosis; Neuron death; Metabolism; Cortex; Hippocampus; NMDA receptor; Microphysiometry (Trafton, J. (731) 122)

Hypoxic adaptation
Cytochrome oxidase histochemistry; Hypobaric hypoxia; Hypometabolism; Brain energy metabolism (LaManna, J.C. (720) 1)

Hypoxic depolarization
Hypoxia; Neuroprotection; Glutamate receptor; Penumbra (Chen, Z.-F. (708) 82)

Hypoxic pretreatment
Hypoxic tolerance; Delayed neuronal death; Superoxide dismutase; Rat; Hippocampus (Gorgias, N. (714) 215)

Hypoxic response
Carotid body; Ca^{2+}-store depletion; O_2 consumption; Thapsigargin (Lahiri, S. (709) 141)

Hypoxic tolerance
Hypoxic pretreatment; Delayed neuronal death; Superoxide dismutase; Rat; Hippocampus (Gorgias, N. (714) 215)

I

Iboga alkaloid
Ibogaine; 18-Methoxycoronaridine; Morphine; Cocaine; Drug self-administration (Glick, S.D. (719) 29)

Ibogaine
Noribogaine; Morphine; Cocaine; Drug self-administration; Microdialysis; Dopamine (Glick, S.D. (713) 294)

Iboga alkaloid; 18-Methoxycoronaridine; Morphine; Cocaine; Drug self-administration (Glick, S.D. (719) 29)

Noribogaine; Phosphoinositide hydrolysis (Rabin, R.A. (731) 226)

Prolactin; Corticosterone; Dopamine; Serotonin (Ali, S.F. (737) 215)

Purkinje cell; Cerebellum; Neurotoxicity; Zebrin; Glial fibrillary acidic protein; Fink-Heimer stain (Molinari, H.H. (737) 255)

Morphine; Antinociception; Noribogaine (Bagal, A.A. (741) 258)

Ibotenic acid
GAP-43; Kainate; Astrocyte; Glial fibrillary acidic protein (GFAP); Hippocampus; Dentate gyrus; CA3 (Meberg, P.J. (706) 217)

Metabolic rate constant; Hexokinase; Cholinergic system; Positron emission tomography (Ouchi, Y. (706) 267)

Neurotoxic lesion; Magnetic resonance imaging; Piriform cortex; Edema (Ben-Horin, N. (718) 97)

Amygdala; Central nucleus; Basolateral nucleus; Reward reduction; Behavioral contrast; Frustration effect; Crespi effect (Salinas, J.A. (742) 283)

ICI 154,129
Autonomic; δ; Enkephalin; μ; Naloxone; Opioid; Solitarius; Vagal (Feldman, P.D. (709) 331)

ICI-174 864
Opioid receptor antagonist; NK cell activity; Conditioning; Cyprodime hydrobromide (cyprodime HBr); Nor-binaltorphimine dihydrochloride (nor-BNI) (Hsueh, C.-M. (737) 263)

Idazoxan
Norepinephrine; Clonidine; Locus ceruleus; Microinfusion; Amygdala; Kindling (Shouse, M.N. (731) 203)

Identified neuron
Anesthetic; FMRFamide; Cell culture; *Lymnaea stagnalis*; Synaptic transmission (Spencer, G.E. (714) 38)

NOS; Central nervous system; Leech; *Hirudo medicinalis*; Annelid; Invertebrate (Leake, L.D. (723) 115)

Gastropod; Immunocytochemistry; Opioid peptide; Neuronal map; High-performance liquid chromatography; Radioimmunoassay; Heart (Ewadinger, N.M. (737) 1)

IGF
IGF analog; Insulin; Calcium; Neuronal cell death (Harper, S.J. (709) 303)

IGF analog
IGF; Insulin; Calcium; Neuronal cell death (Harper, S.J. (709) 303)

IgG immunoreactivity
Axonal injury; Blood–brain barrier; Brain injury; Immunohistochemistry; Rat; Experimental cerebral trauma (Hoshino, S. (711) 73)

192 IgG-saporin
Cholinergic hypothesis; Hippocampus; Immunotoxin; Neocortex; Non-spatial memory (Vnek, N. (710) 265)

Sleep; Nerve growth factor; Cholinergic basal forebrain; EEG power spectrum; Rat (Kapás, L. (712) 53)

Aged rat; Spatial memory; Acoustic startle; Morris water maze; Medial septum (Bannon, A.W. (718) 25)

III group afferent
Capsaicin; Neurokinins; IV group afferent; Muscle ergoceptor; Muscle nociceptor; Dorsal root; Ventral root; Oculomotor nerve (Della Torre, G. (713) 223)

[^{125}I]Iodophenpropit
Histamine H_3 receptor; Binding, ex vivo; Brain penetration; Rat; Mouse; Thioperamide; Clobenpropit (Mochizuki, T. (743) 178)

Imaging
Visual cortex; Glutamate; Noradrenaline; Synaptic plasticity; Calcium; Synergy; Nonlinear interaction (Yang, B. (721) 181)

Thyrotropin-releasing hormone; Calcium; Glutamate; Indo-1; Anticonvulsant (Koenig, M.L. (730) 143)

3,3′-Iminodipropionitrile
Axonal transport; Dorsal root ganglia; Myelinated perikarya; Neurofilament; Neurotoxicity; Proximal axonopathy; Vestibular ganglia (Llorens, J. (717) 118)

Imipramine
Lipopolysaccharide; Depression; Saccharin preference; Sexual behavior; Anorexia; Body weight; Social exploration; Open-field test; Tricyclic antidepressant (Yirmiya, R. (711) 163)

Immature brain
Dopamine; Monoamine; Striatum; Microdialysis; Anoxia; Hypoxia (Nakajima, W. (740) 316)

Immaturity
Brain; Hypoxia-ischemia; Neurotransmitters; Status epilepticus (Cataltepe, O. (709) 326)

Immediate early gene
Circadian rhythm; Fos; Suprachiasmatic nucleus; Substance P; Spantide; Retinohypothalamic tract; Light (Abe, H. (708) 135)

c-*fos*; Anatomy; Nociception; Cardiovascular (Allen, G.V. (715) 125)

Learning; Olfactory preference; Immunohistochemistry; Development; Olfactory bulb (Woo, C.C. (716) 149)

Globus pallidus; Glutamate; Striatum; Fos; Recovery; Frontal cortex; Medial agranular cortex; Dopamine; Neglect; Amphetamine (Vargo, J.M. (716) 207)

Olfactory system; *N*-Methyl-D-aspartate; Mitral cell; c-*fos*; Rat (Wilson, D.A. (719) 62)

Visceral afferent; Spinal cord; Reno-renal reflex; c-*fos*; Dorsal root ganglion; Albino rat; Kidney (Fitch, G.K. (723) 199)

Fos; Cerebral cortex; Dopamine; Reserpine; D1/D2 synergism; Cortical layer; Basal ganglia (LaHoste, G.J. (728) 97)

Circadian rhythm; Entrainment; Suprachiasmatic nucleus; FluoroGold (Peters, R.V. (728) 231)

Suprachiasmatic nucleus; Circadian rhythm; *junB*; Gene expression; Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (732) 215)

Zif268; Visual system; Ocular dominance column; Development; Plasticity; Primate (Silveira, L.C.L. (732) 237)

Atrial natriuretic peptide; c-*fos*; Drinking behavior; C-type natriuretic peptide; Angiotensin II (Zhu, B. (734) 55)

c-fos; c-jun; Krox-24; Vestibular nucleus; Vestibular compensation; Unilateral labyrinthectomy (Darlington, C.L. (735) 173)

Immunohistochemistry; Ventral striatum; Mesoprefrontal; Mesocortical; Reinnervation (Chapman, M.A. (736) 270)

Suprachiasmatic nucleus; Circadian rhythm; *fosB*; c-*fos*; Gene expression; Light; Entrainment; Transcription regulation (Guido, M.E. (739) 132)

Circadian rhythm; Locomotor activity; Phase shift; Protein synthesis inhibitor; Cycloheximide (Zhang, Y. (740) 285)

Immediate early genes
C-fos; Dopamine; Caudate nucleus; Putamen; Striosome; Primate (Asin, K.E. (719) 138)

Brain stimulation reward; Basal forebrain; Medial forebrain bundle; Lateral preoptic area; Substantia innominata (Arvanitogiannis, A. (720) 148)

Immediate-early response gene
Neonate; Blood pressure; Functional activity; Gene induction; Autonomic nervous system; Catecholamine (Ruggiero, D.A. (706) 199)

Immepip
Short-term social memory; Histamine; α-Fluoromethylhistidine; Thioperamide; Histidine (Prast, H. (734) 316)

Immobilization
Fasting; Stress; Estrogen receptor; Paraventricular nucleus; Nucleus of solitary tract (Estacio, M.A.C. (717) 55)

Immobilization stress
Brain microdialysis; Hippocampus; Acetylcholine; Glucose; Epinephrine; Norepinephrine (Tajima, T. (720) 155)

Nitric oxide; Nitric oxide synthase; Paraventricular nucleus; Pituitary; Adrenal cortex; Hypothalamic–pituitary–adrenal axis; Adrenal medulla; Hybridization, in situ (Kishimoto, J. (720) 159)

c-*fos*; Rat; Lactation; Pregnancy; Corticosterone; Paraventricular nucleus (Da Costa, A.P.C. (742) 177)

Immune
Interleukin-1β; Adrenocorticotropin; Cytokine; Regulation; Hypothalamic-pituitary-adrenal axis; Vagus (Kapcala, L.P. (728) 247)

Immunoautoradiography
Tyrosine hydroxylase; Locus coeruleus; Mouse; Perikarya; Neuropile; Plasticity; Topology (Ginovart, N. (719) 45)

Immunoblotting
Calcium; Calcium channel; Immunochemistry; Neural pathway; Retina (Micci, M.A. (720) 139)

Immunochemistry
Rabbit; Vasopressin; Oxytocin; Hypothalamus; Pregnancy; Parturition; Estrus; Maternal behavior (Caba, M. (720) 7)

Calcium; Calcium channel; Immunoblotting; Neural pathway; Retina (Micci, M.A. (720) 139)

Immunocytochemical labeling
Defensive rage behavior; Medial hypothalamus; Midbrain periaqueductal gray; Excitatory amino acid; Receptor binding; NMDA receptor (Schubert, K. (726) 80)

Immunocytochemistry
Calcium-binding protein; Confocal microscopy; Glutamate decarboxylase; Hippocampal formation; Colocalization (Miettinen, M. (706) 113)

Amyloid β peptide; c-Fos transcription factor; Antisense oligodeoxynucleotides; Cell death; Hippocampal cell line (Gillardon, F. (706) 169)

Fibroblast growth factor family; Muscle fiber; Rat (Junttila, T. (707) 81)

Cystatin C; Apolipoprotein E; GFAP; Ischemia; Hippocampus; Gerbil (Ishimaru, H. (709) 155)

Glutamate; AMPA-selective; Receptor; Retina; Cat (Qin, P. (710) 303)

Retrograde degeneration; Vasopressin; Oxytocin; Rat brain (Alonso, G. (711) 34)

Human brain; Alzheimer's disease; Pontine tegmentum; Aging (Van Zwieten, E.J. (711) 146)

Photoperiod; Tyrosine hydroxylase; L-amino acid decarboxylase; Arcuate nucleus; Median eminence; Hamster (Krajnak, K. (712) 95)

Interleukin-1β immunoreactivity; Opiate; Hypothalamus (Patel, N.A. (712) 340)

Monkey; Primary motor cortex; Precentral cortex; Corticospinal tract; Calcium-binding proteins; Seizure; Epilepsy (Preuss, T.M. (712) 353)

Atrioventricular conduction; Cardiac rate; Glutamate; Histochemistry; Nucleus ambiguus; Retrograde transport; Tachykinin; Vagus nerve (Massari, V.J. (715) 197)

Purkinje cell; Glutamate; In situ hybridization (Garyfallou, V.T. (716) 22)

Ca^{2+}-binding protein; EF-hand; Mollusc; *Helix pomatia*; Invertebrate; Electrophysiology (Kubista, H. (716) 53)

Substance P; Neurokinin-1; Striatum; Parotid; Submaxillary; Receptor autoradiography; Tachykinin; Receptor heterogeneity; G-Protein coupled receptor (Mantyh, P.W. (719) 8)

Supraoptic nucleus; c-Fos; Equithesin (Xiong, J.-J. (719) 143)

Tyrosine hydroxylase; Locus coeruleus; Plasticity; Mouse; Topology (Ginovart, N. (721) 11)

Ischemia; Transferrin; Ferritin; Delayed neuronal death; Astrocyte; Microglia; Oligodendrocyte (Ishimaru, H. (726) 23)

Interneuron; Calcium-binding protein; Parvalbumin; Cingulate cortex; Neuronal circuitry (Kalus, P. (729) 45)

Ganglioside; Monoclonal antibody; Differential marker; Neuron (Kawashima, I. (732) 75)

Brainstem; Nitric oxide synthase; Noradrenaline; Rat (Simonian, S.X. (732) 247)

Nitric oxide synthase; Densitometry; Histochemistry; CA1; Long-term potentiation (Vaid, R.R. (733) 31)

Choroid plexus; Microvillus; Ezrin; Cell polarity; Spaceflight; Gravity; Electron microscopy (Gabrion, J. (734) 301)

Luteinizing hormone-releasing hormone; Gonadotropin-releasing hormone; Olfactory marker protein; Peripherin; Olfactory bulb; Rat; Di-I (Santacana, M. (734) 337)

Alzheimer's disease; Amyloid precursor protein; Primary neuronal culture; Growth cone; Phalloidin; Time-lapse microscopy (Storey, E. (735) 59)

Amyloid precursor protein; Cortical neuronal culture; Confocal laser microscopy; Adhesion patch; β_1-Integrin (Storey, E. (735) 217)

Gastropod; Opioid peptide; Identified neuron; Neuronal map; High-performance liquid chromatography; Radioimmunoassay; Heart (Ewadinger, N.M. (737) 1)

Oxidative stress; Advanced glycation end-product; Parkinson's disease; Diffuse Lewy body disease (Castellani, R. (737) 195)

Neuro-glia interaction; Mutant mouse; S-100β; Serotonin; 5-HT_{1A}; Transplantation (Ueda, S. (738) 15)

NADPH diaphorase; Nitric oxide synthase; Estrogen receptor; Ventromedial hypothalamus; Electron microscopy; Reproductive behavior (Rachman, I.M. (740) 291)

Aspartate; Cochlea; Vestibular end organ; Guinea pig; Hair cell; Freeze substitution (Usami, S.-i. (742) 43)

Glutathione; Cochlea; Vestibular endorgan; Guinea pig; Antioxidant; Freeze substitution (Usami, S.-i. (743) 337)

Excitatory amino acid; Neurodegenerative disease; NMDA; Receptor; Striatum (Chen, Q. (743) 346)

Immunoelectron microscopy
Neuronal nitric oxide synthase; Retrograde tracing; Fluoro-Gold; Immunohistochemistry; Basilar artery (Kadota, O. (706) 129)

Nerve injury; Mechanoreceptor; Periodontal ligament; Neuropeptide Y; Regeneration; Ruffini ending; Inferior alveolar nerve (Wakisaka, S. (729) 259)

Immunofluorescence
Rab3a; Synaptophysin; Synapsin I; Peptide; Rat peripheral nervous system (Li, J.-Y. (706) 103)

Tachykinin receptor; Substance P; Confocal microscopy; Proprioception (McGonigle, D.J. (742) 1)

Immunogold silver staining
Excitatory amino acid; Nitric oxide; Double labeling; Retina (Zhang, C. (729) 205)

Immunohistochemistry
Tyrosine hydroxylase; Transient catecholaminergic neuron; Bed nucleus of stria terminalis; Central amygdaloid nucleus; Wallerian degeneration (Beltramino, C.A. (706) 37)

Hippocampal cholinergic neurostimulating peptide; HCNP localization; Central nervous system; Neuron; Oligodendroglia (Mitake, S. (706) 57)

Neuronal nitric oxide synthase; Retrograde tracing; Fluoro-Gold; Immunoelectron microscopy; Basilar artery (Kadota, O. (706) 129)

Calcium-binding protein; Basal ganglia; Squirrel monkey; *Saimiri sciureus*; Neurodegenerative disease (Fortin, M. (708) 201)

Lateral geniculate nucleus; Magnocellular; Parvocellular; Visual cortex; Parallel processing (Chaudhuri, A. (709) 17)

Amino acid transporter; Magnocellular neuroendocrine neuron; Hypothalamus; Rat (Hisano, S. (710) 299)

Axonal injury; Blood–brain barrier; Brain injury; Rat; IgG immunoreactivity; Experimental cerebral trauma (Hoshino, S. (711) 73)

Apoptosis; Neuron; Glial cell; Development; Western blotting (Mizuguchi, M. (712) 281)

Nerve growth factor; Focal cerebral ischemia; Middle cerebral artery; Rat (Lee, T.-H. (713) 199)

Calbindin-D28k; Calretinin; Carbonic anhydrase; Trigeminal ganglion; Tooth pulp; Rat (Ichikawa, H. (715) 71)

Respiration; Bötzinger neuron; Intracellular recording; Neurobiotin; Thyrotropin releasing hormone (Sun, Q.-J. (715) 136)

Protein kinase C; Inhibition; Mouse; Sciatic nerve; Regeneration (Wiklund, P. (715) 145)

Immediate early gene; Learning; Olfactory preference; Development; Olfactory bulb (Woo, C.C. (716) 149)

Glial fibrillary acidic protein; Vimentin; Dentate gyrus; Hilus; Seizure (Stringer, J.L. (717) 147)

Ca^{2+}/calmodulin-dependent protein kinase IV; In situ hybridization histochemistry; Retrograde tracer; Bipolar cell (Sakagami, H. (719) 154)

Limbic system; Monoclonal antibody; Regional specificity; Western blot; Synapse; Hippocampus (Fukuyama, R. (719) 194)

5α-reductase; Western blot; Rat; Brain (Tsuruo, Y. (722) 207)

Ferritin; MPTP; Parkinson's disease; Oxidative stress; Microglia (Goto, K. (724) 125)

Axonal regeneration; Retina, flat-mounted; Monoclonal antibody C38; Rat; Retinal ganglion cell (Wakabayashi, T. (725) 121)

Galanin; Galanin receptor; Localization; Radioreceptor assay; Brain; Quail (Azumaya, Y. (727) 187)

Periaqueductal gray; proTRH; Opiate withdrawal; Hybridization histochemistry in situ; Rat (Légrádi, G. (729) 10)

Accessory olfactory system; Calcium-binding protein; Neurocalcin; Rat; Vomeronasal organ (Porteros, A. (729) 82)

Nerve fiber; Axon; Tooth germ; Tooth pulp; Neuropeptide; Teleost (Tuisku, F. (729) 137)

Short-term adrenalectomy; Long-term adrenalectomy; Glucocorticoid receptor; Silver impregnation; Forebrain; Rat (Visser, D.T.M. (729) 216)

Dopamine receptor; Tyrosine hydroxylase; Striatum; Substantia nigra; Electron microscopy (Caillé, I. (730) 17)

Lys-γ_2-MSH-like immunoreactivity; Brain; Heart; Vascular system; Rat (Fodor, M. (731) 182)

Cyclin-dependent kinase; Purkinje cell; Trigeminal ganglia; Nuclear protein; Central nervous system; Peripheral nervous system (Ino, H. (732) 179)

Galanin; Calcitonin gene-related peptide; Dual innervation; Esophagus; Rat (Kuramoto, H. (734) 186)

Cerebral ischemia; Cerebral infarction; Microglia; Leukocyte; Inflammation; Rat (Kato, H. (734) 203)

Nuclear factor-κB; Alzheimer's disease; Human brain; Neuron; Hippocampal formation; Cerebral cortex (Terai, K. (735) 159)

Growth inhibitory factor; Metallothionein; Rat; Brain; Ultrastructure (Yamada, M. (735) 257)

Calbindin D-28k; Calcitonin gene-related peptide; Jugular ganglion; NADPH-diaphorase;

Nodose ganglion; Petrosal ganglion; Tyrosine hydroxylase (Ichikawa, H. (735) 325)

Immediate-early gene; Ventral striatum; Mesoprefrontal; Mesocortical; Reinnervation (Chapman, M.A. (736) 270)

GABA; Glycine; Inhibitory amino acid; Nucleus tractus solitarii; Sheep (Sweazey, R.D. (737) 275)

Fos; Corticotropin-releasing hormone mRNA (Eaton, M.J. (738) 60)

Picrotoxin; Calcium-binding protein; Neurofilament protein; Fos (Hiscock, J.J. (738) 301)

Heat shock 70 gene expression; Tissue culture; Hybridization, in situ; Rat cerebellum; Neuron; Microglia; Astrocyte (Voisin, P.J. (739) 215)

Bcl-2 gene family; Axotomy; Dorsal root ganglion; c-Jun transcription factor; DNA fragmentation; Apoptosis (Gillardon, F. (739) 244)

Growth inhibitory factor; Stab wound; Gliosis; Reactive astrocyte; Confocal laser scan microscope (Hozumi, I. (741) 197)

Haloperidol; Buspirone; 5-HT_{1A} receptor; c-*Fos*; Striatum; Nucleus accumbens; Lesopitron (E-4424) (Palacios, G. (742) 141)

γ-Aminobutyric acid; Middle cerebral artery occlusion; *N*-methyl-D-aspartate receptor; Substantia nigra (Yamada, K. (743) 233)

Basal ganglia; Brain; CYP2E1; NADPH-P450 oxidoreductase; P450; Parkinson's disease (Riedl, A.G. (743) 324)

Immunology
Methylprednisolone; Cyclosporin A; Neural transplantation; Xenograft; Inflammation; Cytokine; Brain; Rat (Duan, W.-M. (712) 199)

Immunoprecipitation
Fetal alcohol syndrome; Neurotrophin; Nerve growth factor receptor; Cell culture; PC12; Nerve growth factor binding study; Northern blot analysis (Luo, J. (737) 34)

Tubulin isotype; Class II β-tubulin; Class III β-tubulin; Slow axonal transport; Axon regeneration; Tubulin expression (Hoffman, P.N. (742) 329)

Immunoreactivity
Synaptic stripping; Microglia; Cellular swelling; B-50/GAP-43; Side effect (Ulenkate, H.J.L.M. (717) 29)

Immunosuppressant
Calcineurin; Cyclosporin A; Dephosphorylation; Memory; Phosphatase (Bennett, P.C. (730) 107)

Immunotoxin
192 IgG-saporin; Cholinergic hypothesis; Hippocampus; Neocortex; Non-spatial memory (Vnek, N. (710) 265)

192-Saporin; Medial septum; Spatial memory; Alzheimer's disease; Animal model; Cholinergic basal forebrain (Walsh, T.J. (726) 69)

Saporin; Noradrenaline; Locus coeruleus; Lesion; Rat (Wrenn, C.C. (740) 175)

Implantation
Interleukin-2; Gene therapy; Blood–brain barrier; Brain tumor; Microglia (Nam, M. (731) 161)

IMR-32
Cell culture; Neurofilament; SMI31; Oxidative stress; Ascorbate (Cookson, M.R. (738) 162)

Inbred mouse
Behavioral lateralization; Prolactin; Stress response; *Agouti* (Waters, N.S. (724) 112)

Inbred mouse strain
Opioid receptor; Genetic control; Caudate-putamen; Adenylyl cyclase; Dopamine D_1 receptor; Adenosine A_{2a} receptor; Striatonigral neuron; Striatopallidal neuron (Noble, F. (716) 107)

Inbred mouse strains
Nitrous oxide; Antinociception; Quantitative trait loci (Quock, R.M. (725) 23)

Inbred rat strain
Electroconvulsive shock; Seizure; Rat; Epilepsy; Animal model; Spontaneously hypertensive rat (Francis, A. (721) 150)

WKHA rat; Stress; Locomotor activity; Anxiety; Factor analysis; Neuroendocrinology; F2 intercross (Courvoisier, H. (743) 77)

Inclined plane
Cerebral ischemia; Gerbil; Ischemic tolerance; HSP70; Microtubule-associated protein 2 (Kitagawa, K. (716) 39)

Incomplete ischemia
Chronic hypoperfusion; Ligation of bilateral common carotid artery; Muscarinic acetylcholine receptor; Wistar rat; Rarefaction; Cerebrovascular type dementia; Discrimination learning (Tanaka, K.-i. (729) 55)

Increased EPSP
Hippocampal slice; Dentate gyrus granule cell; Whole-cell recording; Time constant; Pilocarpine; Epilepsy (Isokawa, M. (718) 169)

Increased plasma osmolality
Antidiuretic hormone; Brain vasopressin receptor; Vasopressin antagonist; OPC-31260; 1-Desamino-8-D-arginine vasopressin (Liu, H.-W. (719) 14)

Indirect calorimetry
Neuropeptide Y; Paraventricular nucleus; Perifornical hypothalamus; Respiratory quotient; Metabolism; Food intake (Currie, P.J. (737) 238)

Indo-1
NMDA; Flow cytometry; MK-801; Cerebellum; Granule cell; Oxidative stress; Calcium (Sureda, F.X. (723) 110)

Intracellular-free calcium; Neurotrophin; Septohippocampal; Ethanol neurotoxicity; Nerve growth factor (Webb, B. (729) 176)

Thyrotropin-releasing hormone; Calcium; Glutamate; Imaging; Anticonvulsant (Koenig, M.L. (730) 143)

Indomethacin
Tonic inhibition; Temperature increase; Metabolic heat production; Interscapular brown adipose tissue; Procaine; Propranolol (Shibata, M. (716) 171)

Alzheimer's disease; β-Amyloid; Interleukin-1; Inflammation; Dexamethasone; Chloroquine (Fagarasan, M.O. (723) 231)

Inducible nitric oxide synthase
Nitric oxide; β-Amyloid protein; Neurotoxicity; Microglial cells; Interferon-γ; Alzheimer's disease (Ii, M. (720) 93)

Lipopolysaccharide; Protein tyrosine kinase inhibitor; Nitric oxide; Microglia; Astrocyte (Kong, L.-Y. (729) 102)

Nitric oxide; Nitric oxide synthase; Glial cell; Hypoxia; Interferon-γ; Interleukin-1β (Kawase, M. (738) 319)

Infant
Cerebral ischemia; Hypoxia; Neuroprotection; Dexamethasone; Glucocorticoid; RU38486; Corticosterone (Tuor, U.I. (743) 258)

Infant convulsion
Hyperthermia; Pentylenetetrazol; Morris water maze; Locomotor; Activity; Convulsion susceptibility (Kornelsen, R.A. (706) 155)

Inferior alveolar nerve
Nerve injury; Neuropeptide Y; Ruffini ending; Periodontal ligament; Mechanoreceptor; Rat (Wakisaka, S. (712) 11)

Nerve injury; Mechanoreceptor; Periodontal ligament; Neuropeptide Y; Regeneration; Ruffini ending; Immunoelectron microscopy (Wakisaka, S. (729) 259)

Inferior colliculus
Kindling; Audiogenic seizure; Neuron; Genetically epilepsy-prone rat (N'Gouemo, P. (710) 92)

Gene therapy; Viral vector; Adeno-associated virus; Hippocampus (McCown, T.J. (713) 99)

Acetylcholine; Microiontophoresis; Horseshoe bat (Habbicht, H. (724) 169)

Ethanol withdrawal; Neuronal firing; γ-Aminobutyric acid; Desensitization; Clonic seizure (N'Gouemo, P. (724) 200)

Inflammation
Alzheimer's disease; Amyloid P; β-Amyloid protein; Reactive astrocyte; Microglia (Schwab, C. (707) 196)

Methylprednisolone; Cyclosporin A; Neural transplantation; Xenograft; Immunology; Cytokine; Brain; Rat (Duan, W.-M. (712) 199)

Carrageenan; COX-2 inhibitor; Nociception; Spinal cord; Rat (Buritova, J. (715) 217)

Thymulin; Endotoxin; Hyperalgesia; Neuroimmunology (Safieh-Garabedian, B. (717) 179)

Fos; Spinal cord; Arthritis; Formalin; Potentiation (Leah, J.D. (719) 104)

Calcitonin gene-related peptide; Substance P; Sensory nerve sprouting; Reparative dentin; Steroid; Pain (Ferrari, A.M. (723) 125)

Alzheimer's disease; β-Amyloid; Interleukin-1; Indomethacin; Dexamethasone; Chloroquine (Fagarasan, M.O. (723) 231)

Locus coeruleus; Hyperalgesia (Tsuruoka, M. (726) 233)

Cerebral ischemia; Cerebral infarction; Microglia; Leukocyte; Immunohistochemistry; Rat (Kato, H. (734) 203)

Visceral; Nociception; Colon; Colorectal distension; Zymosan; Excitatory amino acid; *N*-Methyl-D-aspartate (Coutinho, S.V. (736) 7)

Nitric oxide; 7-Nitro indazole; Nociception; Intrathecal; Spinal cord; Wind-up (Stanfa, L.C. (737) 92)

Tachykinin; Neurokinin receptor; Nociception; Hyperalgesia; Substance P; Flexion reflex; Spinal cord hyperexcitability (Parsons, A.M. (739) 263)

Locus coeruleus; Hyperalgesia; Naloxone (Tsuruoka, M. (743) 86)

Information coding
Frog labyrinth; Endolymph; Clofilium; Transepithelial potential; K secretion; Synaptic transmission (Rossi, M.L. (721) 174)

Infralimbic cortex
Voltammetry; Mesocorticolimbic dopamine; SCH 23390; SKF 38393; Sulpiride; Quinpirole; GBR 12909 (Doherty, M.D. (715) 86)

Infrared
NADPH-diaphorase; DPIP; Enzyme histochemistry; Brain; Snake (Jiang, P.-J. (713) 168)

Infrared videomicroscopy
Excitotoxicity; Hippocampus; Kainate; *N*-Methyl-D-aspartate; Neostriatum; Suprachiasmatic nucleus (Colwell, C.S. (724) 205)

Inhibition
Spinothalamic tract neuron; Cardiopulmonary sympathetic afferent; Spinal transection; Nociception; Vagus nerve (Zhang, J. (709) 337)

γ-Aminobutyric acid; Somatosensory; Cortex; Microiontophoresis (Kyriazi, H.T. (712) 325)

Protein kinase C; Mouse; Sciatic nerve; Immunohistochemistry; Regeneration (Wiklund, P. (715) 145)

γ-Aminobutyric acid; Glycine; Periaqueductal gray; Spinal cord; Dorsal horn; Receptor; Serotonin (Peng, Y.B. (736) 189)

Potassium current; Modulation; Transmembrane signaling (Villarroel, A. (740) 227)

Inhibition of bitter response
Frog taste response; Lipoprotein (Katsuragi, Y. (713) 240)

Inhibitor
Glioma; Protein kinase C; Tyrosine kinase; Signal transduction (Baltuch, G.H. (710) 143)

Brain; Cytochrome P450; CYP2D; Metabolism; Antidepressant (Sequeira, D.J. (738) 24)

Inhibitory amino acid
GABA; Glycine; Immunohistochemistry; Nucleus tractus solitarii; Sheep (Sweazey, R.D. (737) 275)

Inhibitory avoidance
Stria terminalis; Amygdala; Memory modulation; Dexamethasone; Adrenalectomy; Water maze (Roozendaal, B. (709) 243)

Prenatal alcohol exposure; Sleep; Memory; Glucose; Spontaneous alternation; Radial arm maze (Stone, W.S. (742) 98)

Inhibitory postsynaptic current
γ-Aminobutyric acid; Spinal cord; Paired pulse facilitation; Patch clamp method; Slice (Tanabe, M. (716) 101)

Initiation phase
Cocaine; Heroin; Self-administration; Motivational aspects; Nucleus accumbens; Dopamine; 6-Hydroxydopamine (Gerrits, M.A.F.M. (713) 114)

Inner ear
bcl-2; *bax*; *bcl-x*; In situ hybridization; Mouse (Ishii, N. (726) 123)

Inner segment
Rat; In situ hybridization; Photoreceptor; Rod; Development; Dark-rearing (Hoover, F. (718) 124)

Innervation
$GABA_A$; Neurotransmitter receptor subtype; Development; Cerebellar granule neuron (Ueno, S. (714) 49)

Inositol hexakisphosphate
Phytate; Zinc; Calcium; Neuronal cytotoxicity; Hippocampus; Acetylcholinesterase (Lees, G.J. (741) 134)

Inositol phosphate
Phosphoinositide; Depression; G-protein; Signal transduction (Pacheco, M.A. (723) 37)

Inositol 1,4,5-Trisphosphate receptor
Autosomal recessive; Ataxic mutant; Dilute-opisthotonus rat; Dendritic spine; Endoplasmic reticulum; Purkinje cell abnormality (Dekker-Ohno, K. (714) 226)

Input-specificity
Long-term depression; Age-dependency; Heterosynaptic depression; Spiking threshold; NMDA receptor; Low-frequency stimulation (Staubli, U.V. (714) 169)

Insect
Dopamine; D_1 receptor; [^{3}H]SCH23390; [^{3}H]Spiperone; Binding; Brain (Kokay, I.C. (706) 47)

Locust; Flight; Motor pattern; Temperature; Membrane potential; PSP amplitude (Xu, H. (734) 213)

Insecticide
GABA receptor subunit; Lindane; Hexachlorocyclohexane; HCH isomer; Chloride current; Human embryonic kidney cell (Nagata, K. (738) 131)

In situ hybridization
Corticosterone; Glucocorticoid receptor; Hippocampus; Paraventricular nucleus of the hypothalamus; Rat (Helmreich, D.L. (706) 137)

Ca^{2+}/calmodulin-dependent protein kinase I; Northern blot analysis; Development; Rat brain (Sawamura, Y. (706) 259)

Opioid peptide; Corticotropin-releasing factor; c-*fos*; Hypothalamic–pituitary–adrenal axis (Wang, X.-Q. (707) 189)

Glutamate; *N*-Methyl-D-aspartate (NMDA); Dizocilpine; Striatum; Midbrain; Cortex (Healy, D.J. (708) 38)

Muscarinic receptor; Phospholipase C; Phosphoinositide; PLC-mRNA; Aging; Fisher rat; Brain; Signal transduction (Narang, N. (708) 143)

Hyperexcitability; Plasticity; Granule cell; Rat; Epilepsy; Growth factor; Hippocampus (Elmér, E. (712) 19)

Purkinje cell; Glutamate; Immunocytochemistry (Garyfallou, V.T. (716) 22)

Preprotachykinin; Nerve growth factor receptor; mRNA; Dorsal root ganglia; Peripheral inflammation; Pain (Cho, H.-J. (716) 197)

Rat; Photoreceptor; Rod; Inner segment; Development; Dark-rearing (Hoover, F. (718) 124)

Interleukin-6 mRNA; Interleukin-6 receptor mRNA; Superior cervical ganglia; Dorsal root ganglia; Reverse transcription–polymerase chain reaction (Gadient, R.A. (724) 41)

Heat shock protein; Hyperthermia; hsc70 (Foster, J. (724) 73)

Inner ear; *bcl-2*; *bax*; *bcl-x*; Mouse (Ishii, N. (726) 123)

Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin-3; PC2; Epileptiform activity; Co-regulation; Co-localization (Meyer, A. (732) 121)

Cytochrome P45011B1; Cerebral cortex; Neurosteroid; Transgenic rat; Hypertension (Erdmann, B. (733) 73)

MK-801; NBQX; Permanent MCAO; GFAP; SGP-2; Clusterin (Yamashita, K. (735) 285)

Catecholamine; Locus coeruleus; Ventral tegmental area; Tyrosine hydroxylase; Transporter (Figlewicz, D.P. (736) 54)

In situ hybridization histochemistry
Ca^{2+}/calmodulin-dependent protein kinase IV; Immunohistochemistry; Retrograde tracer; Bipolar cell (Sakagami, H. (719) 154)

Galanin; Cholinergic; Gene expression; Horizontal limb, diagonal band of Broca; Basal forebrain (Planas, B. (728) 57)

In solution hybridization
Insulin; Brain; Spinal cord; Dorsal root ganglia; mRNA; Polymerase chain reaction; Electron microscopy (Schechter, R. (736) 16)

Insomnia
Apamin; Neurotoxin; Sleep; Waking; Ca^{2+}-activated K^+ channel (Gandolfo, G. (736) 344)

Insular cortex
Kindling; Kindling antagonism; Amygdala; Piriform cortex; Perirhinal cortex; Seizure suppression (Mohapel, P. (733) 211)

Insulin
IGF; IGF analog; Calcium; Neuronal cell death (Harper, S.J. (709) 303)

Brain; Spinal cord; Dorsal root ganglia; mRNA; Polymerase chain reaction; In solution hybridization; Electron microscopy (Schechter, R. (736) 16)

Insulin-like growth factor I; Nociceptive transmission; Spinal cord (Bitar, M.S. (737) 292)

Satiety; Food ingestion; Water intake; Glucose; Hindbrain (Menani, J.V. (740) 102)

Insulin-like growth factor I
Insulin; Nociceptive transmission; Spinal cord (Bitar, M.S. (737) 292)

Intact cerebellar granule cell
Muscarinic antagonist; Selectivity; Intrinsic activity (Saunders, P.A. (713) 29)

Intact proestrous rat
5-$HT_{2A/2C}$ antagonist; Ovariectomized rat; Lordosis behavior (Uphouse, L. (718) 46)

Integration
Area postrema; Baroreflex; Brain slice; Intracellular recording; Nucleus tractus solitarius (Cai, Y. (724) 121)

β_1-Integrin
Amyloid precursor protein; Cortical neuronal culture; Immunocytochemistry; Confocal laser microscopy; Adhesion patch (Storey, E. (735) 217)

Intercellular adhesion molecule-1
Cyclooxygenase-2; Interleukin-1; Type-1 interleukin-1 receptor; Fever; Hybridization, in situ; Endothelial cell (Cao, C. (733) 263)

Intercellular coupling
Carotid body; Glomus cell; Calcium; A23187; BAPTA/AM; Dimethylsulfoxide (Abudara, V. (725) 125)

Interferon
Neuronal activity; Neuromodulator (Dafny, N. (734) 269)

Interferon-γ
Tetrahydrobiopterin; Epidermal growth factor; Nerve growth factor; Tyrosine hydroxylase; Guanosine triphosphate cyclohydrolase; Sphingosine; Cyclic adenosine monophosphate; Pheochromocytoma cell (Anastasiadis, P.Z. (713) 125)

Nitric oxide; Inducible nitric oxide synthase; β-Amyloid protein; Neurotoxicity; Microglial cells; Alzheimer's disease (Ii, M. (720) 93)

Interferon-γ
Nitric oxide; Nitric oxide synthase; Inducible nitric oxide synthase; Glial cell; Hypoxia; Interleukin-1β (Kawase, M. (738) 319)

Intergeniculate leaflet
Lateral geniculate nucleus; Geniculohypothalamic tract; Suprachiasmatic nucleus; Circadian rhythm; Neuropeptide Y; Cat (Pu, M. (725) 247)

Circadian rhythm; Suprachiasmatic nucleus; Constant light; Fos immunoreactivity (Edelstein, K. (731) 221)

Interhemispheric
Visual cortex; Horseradish peroxidase; Ultrastructure (Kim, J.H.Y. (740) 47)

Interictal metabolic level
Audiogenic rat; Seizure; Kindling; [^{14}C]2-Deoxyglucose; Cerebral glucose utilization (Nehlig, A. (724) 97)

Interleukin-1
Alzheimer's disease; β-Amyloid; Inflammation; Indomethacin; Dexamethasone; Chloroquine (Fagarasan, M.O. (723) 231)

Passive avoidance; Scopolamine-induced amnesia; Recombinant granulocyte-macrophage colony-stimulating factor (Bianchi, M. (729) 285)

Cyclooxygenase-2; Intercellular adhesion molecule-1; Type-1 interleukin-1 receptor; Fever; Hybridization, in situ; Endothelial cell (Cao, C. (733) 263)

Interleukin-6; Tumor necrosis factor; Lipopolysaccharide; Transgenic mice (Di Santo, E. (740) 239)

Interleukin-2
Cytokine; Intracranial self-stimulation; Microdialysis; Dopamine; Psychoneuroimmunology (Anisman, H. (731) 1)

Gene therapy; Blood–brain barrier; Brain tumor; Microglia; Implantation (Nam, M. (731) 161)

Interleukin-6
Cytokine; Nerve growth factor; Traumatic brain injury; Astrocyte; Human (Kossmann, T. (713) 143)

Microglia; Granulocyte/macrophage colony-stimulating factor; Cytokine; Astrocyte (Suzumura, A. (713) 192)

Interleukin-6 receptor; Glycoprotein gp130; Ciliary neurotrophic factor; Leukemia inhibitory factor; Wobbler; Motoneuron disease (Ikeda, K. (726) 91)

Tumor necrosis factor; Interleukin-1; Lipopolysaccharide; Transgenic mice (Di Santo, E. (740) 239)

Interleukin-1β
Apoptosis; Endotoxin; Hippocampus; Hypothalamus; Lipopolysaccharide; Pituitary (Tingsborg, S. (712) 153)

Immune; Adrenocorticotropin; Cytokine; Regulation; Hypothalamic-pituitary-adrenal axis; Vagus (Kapcala, L.P. (728) 247)

Hyperalgesia; Diclofenac; α-Melanocyte-stimulating hormone; Prostaglandin; Cytokine; Central nervous system (Oka, T. (736) 237)

Nitric oxide; Nitric oxide synthase; Inducible nitric oxide synthase; Glial cell; Hypoxia; Interferon-γ (Kawase, M. (738) 319)

Interleukin-1β immunoreactivity
Opiate; Hypothalamus; Immunocytochemistry (Patel, N.A. (712) 340)

Interleukin-6 mRNA
Interleukin-6 receptor mRNA; Superior cervical ganglia; Dorsal root ganglia; Reverse transcription–polymerase chain reaction; In situ hybridization (Gadient, R.A. (724) 41)

Interleukin-6 receptor
Gp 130; c-*fos*; Reverse transcriptase–polymerase chain reaction; Hybridization, in situ; PC12 cell; Sympathetic neuron; Tumor necrosis factor α; Glucocorticoid; Differentiation (März, P. (706) 71)

Interleukin-6; Glycoprotein gp130; Ciliary neurotrophic factor; Leukemia inhibitory factor; Wobbler; Motoneuron disease (Ikeda, K. (726) 91)

Interleukin-6 receptor mRNA
Interleukin-6 mRNA; Superior cervical ganglia; Dorsal root ganglia; Reverse transcription–polymerase chain reaction; In situ hybridization (Gadient, R.A. (724) 41)

Intermediate filament
Gene expression; Molecular cloning; Type 1 astrocyte; Intermediate filament-associated protein; Hippocampus; Olfactory-limbic system (Schaar, D.G. (721) 217)

Intermediate filament-associated protein
Gene expression; Molecular cloning; Type 1 astrocyte; Intermediate filament; Hippocampus; Olfactory-limbic system (Schaar, D.G. (721) 217)

Intermediolateral cell column
Pituitary adenylate cyclase activating polypeptide; Human; Dorsal horn; Dorsal root ganglion; Calcitonin gene-related peptide; Substance P (Dun, E.C. (721) 233)

Interneuron
Postsynaptic inhibition; Presynaptic inhibition; Somatosensory; Cuneate nucleus; Gracile nucleus (Popratiloff, A. (706) 308)

Calcium-binding protein; Parvalbumin; Immunocytochemistry; Cingulate cortex; Neuronal circuitry (Kalus, P. (729) 45)

Serotonin; Dentate gyrus; Tenia tecta; Septum; Amygdala (Morales, M. (731) 199)

Interpolaris
Spinal trigeminal nucleus; Caudalis; c-Fos; Heart rate conditioning; Unconditioned stimulus; Cornea; Medial geniculate (McEchron, M.D. (710) 112)

Interscapular brown adipose tissue
Tonic inhibition; Temperature increase; Metabolic heat production; Procaine; Propranolol; Indomethacin (Shibata, M. (716) 171)

Inter-spike interval
Dopamine exocytosis; Bursting pattern; Burst; Distribution; Cell body; Giant dopamine neuron; *Planorbis corneus* (Chen, G. (733) 119)

Interstitial cells of Cajal
Stem cell factor; Enteric nervous system; Pacemaker cells; Gastrointestinal motility (Torihashi, S. (738) 323)

Intestine
Neuropeptide; Tachykinin; Radioimmunoassay; High performance liquid chromatography; Nervous system, insect; Brain (Muren, J.E. (739) 314)

Intracardiac plexus
NADPH diaphorase; Acetylcholinesterase; Human; Monkey; Dog; Right atrium (Yoshida, K. (724) 256)

Intracellular acid-base balance
Amiloride; Na^+/H^+ antiporter; Methylisobutyl amiloride; 5-N substituted amiloride analog (Lin, C.-W. (731) 108)

Intracellular Ca^{2+}
Opiate; Fura-2; Synergy; Differentiation; Synchronization (Sarne, Y. (722) 203)

Peripheral nerve; Ischemia; Intracellular pH; Neuropathy; Fluorescent dye (Wächtler, J. (725) 30)

Excitatory amino acid; Flow cytometry; Neuronal death (Oyama, Y. (728) 121)

Intracellular Mg^{2+}; Voltage-sensitive calcium channel; Hippocampal neuron; Digital imaging microscopy (Zhang, A. (728) 204)

Intracellular calcium
Cerebrocortical synaptosome; Lipid peroxidation; Calcium uptake; Calcium-dependent ATPase (Pereira, C. (713) 269)

Cell division; Endogenous opioid system; μ-Opioid receptor; Neural development; Dantrolene; Nifedipine; Thapsigargin; Fura-2 (Hauser, K.F. (720) 191)

Ethanol; Central nervous system neuron; Fura-2; Glutamate receptor; Neuronal development; Fetal alcohol syndrome (Gruol, D.L. (728) 166)

Epilepsy; Verapamil; Calcium antagonist; Channel; *Helix pomatia* (Wiemann, M. (734) 49)

Morphine tolerance; Opiate tolerance; Opiate; Dizolcipine; NMDA receptor; Glutamate (Garcia, M.M. (734) 123)

Opioid receptor; Cell division; Central nervous system maturation; Neuroglia; Drug abuse; Endogenous opioid system; U69593; U50488H; *Nor*-binaltorphimine; Fura-2; Nifedipine; Thapsigargin (Gurwell, J.A. (737) 175)

Intracellular calcium concentration
Submucous plexus neuron; L-DOPA; L-DOPA methyl ester; Intracellular recording; Fast EPSP; Neurotransmitter release; Fura-2 microfluorophotometry (Hirai, K. (718) 105)

Intracellular calcium oscillation
Basic fibroblast growth factor; Synaptic transmission; Synaptic modulation; GABAergic system (Tanaka, T. (723) 190)

Intracellular Ca^{2+} pool
Ca^{2+} mobilization; Mitochondria; Arachidonic acid; Sphingosylphosphorylcholine; Sphingosine (Huang, W.-C. (718) 151)

Intracellular compartment
Amyloid precursor protein; β-Amyloid; Alzheimer's disease; Processing; Alkalizing agent; Endocytosis (Schrader-Fischer, G. (716) 91)

Intracellular electrophysiological recording
Tolerance; Dependence; $GABA_B$ receptor; Hippocampus; CA1 pyramidal neuron; CA3 pyramidal neuron (Frye, G.D. (735) 239)

Intracellular free calcium
Myenteric neuron; Pulsed nitrogen laser; Calbindin-D_{28}; ATP; AH/Type 2; Dogiel type II; S/Type 1; Enteric glia (Christofi, F.L. (725) 241)

Neurotrophin; Septohippocampal; Indo-1; Ethanol neurotoxicity; Nerve growth factor (Webb, B. (729) 176)

Intracellular Mg^{2+}
Intracellular Ca^{2+}; Voltage-sensitive calcium channel; Hippocampal neuron; Digital imaging microscopy (Zhang, A. (728) 204)

Intracellular pH
CO_2 partial pressure; Extracellular pH; Neural excitability; Respiratory alkalosis (Lee, J. (706) 210)

Heat shock; Alkalosis; Monensin; HSP; Synthesis; C6 glioma (Neuhaus-Steinmetz, U. (724) 16)

Peripheral nerve; Ischemia; Intracellular Ca^{2+}; Neuropathy; Fluorescent dye (Wächtler, J. (725) 30)

Cerebral ischemia; Hyperglycemia; Energy metabolism; Postischemic alkalinization (Katsura, K.-i. (726) 57)

Intracellular recording
γ-Aminobutyric acid; Rostro-ventrolateral medulla; Brainstem slice; Cardiovascular regulation; Baroreflex; Pacemaker neuron (Hayar, A. (709) 173)

Respiration; Bötzinger neuron; Neurobiotin; Immunohistochemistry; Thyrotropin releasing hormone (Sun, Q.-J. (715) 136)

Submucous plexus neuron; L-DOPA; L-DOPA methyl ester; Fast EPSP; Neurotransmitter release; Fura-2 microfluorophotometry; Intracellular calcium concentration (Hirai, K. (718) 105)

Area postrema; Baroreflex; Brain slice; Integration; Nucleus tractus solitarius (Cai, Y. (724) 121)

Cingulate cortex; Nociceptive specific neuron; Morphology; Neurobiotin (Yamamura, H. (735) 83)

Dorsal raphe nucleus; Electrophysiology; 5-HT neuron; Serotonin (Hajós, M. (737) 308)

Adriamycin; Doxorubicin; Motoneuron; Aging; Neurotoxicity; Equivalent cylinder; Cell size (Liu, R.-H. (738) 121)

Intracellular recording from motoneuron
Peripheral nerve regeneration; Polyglycolic acid-collagen tube; Horseradish peroxidase; Somatosensory evoked potential; Electromyogram; Cat sciatic nerve; Reinnervation, misdirected (Kiyotani, T. (740) 66)

Intracellular staining
Cat; Sensorimotor cortex; Bursting; Afterdepolarization (Nishimura, Y. (727) 212)

Intracerebral transplantation
Migration; [^{3}H]thymidine; Oligodendrocyte; Astroglia; Pericyte (Lundberg, C. (737) 295)

Intracerebroventricular injection
Cobalt protoporphyrin; Feeding; Neuropeptide Y; Hypothalamus (Choi, S.J. (729) 223)

Intracerebroventricular pressure
Motor activity; Orthostatic restraint; Antiorthostatic restraint; Rat (Maurel, D. (736) 165)

Intracranial microdialysis
Noradrenaline; Posterior hypothalamus; Wistar rat; Recovery; Sevoflurane; Halothane (Chave, S. (706) 293)

Intracranial pressure
Human brain monitoring; Cerebral blood flow; Extracellular K^+; NADH redox state; Cortical spreading depression; Multiparametric monitoring; Head trauma (Mayevsky, A. (740) 268)

Intracranial self-stimulation
Cytokine; Interleukin-2; Microdialysis; Dopamine; Psychoneuroimmunology (Anisman, H. (731) 1)

Intrafusal
Muscle spindle; Kinaesthesia; Proprioception; Elbow joint; Contraction; Stretch; Afferent; Sensation (Wise, A.K. (735) 125)

Intraluminal thread
Focal cerebral ischemia; Rat; MK-801; Strain difference; Filament (Oliff, H.S. (731) 208)

Intraperitoneal
N-methyl-D-aspartate (NMDA) receptor antagonist; Non-competitive; Allodynia; Hyperalgesia; Spontaneous pain; Nociception (Qian, J. (715) 51)

Intraterminal calcium
Presynaptic nicotinic receptor; Sympathetic neuron; Noradrenaline release; Calcium channel (Doležal, V. (740) 75)

Intrathecal
Acetylcholine; Analgesia; Atropine; Methysergide; Naloxone; Noradrenaline; Serotonin; Spinal cord; Yohimbine (Fang, F. (722) 95)

Analgesia; Thalamus neuron; Morphine; Morphine-6-glucuronide; Intravenous (Jurna, I. (722) 132)

Allodynia; α_2-Adrenoceptor agonist; Central pain; Clonidine; Neuropathic pain; Sedation; Spinal cord (Hao, J.-X. (736) 28)

Nitric oxide; 7-Nitro indazole; Nociception; Spinal cord; Wind-up; Inflammation (Stanfa, L.C. (737) 92)

NMDA receptor/glycine site; Non-NMDA receptor; Antinociception; Tail flick assay; Formalin test (Lutfy, K. (743) 17)

Intrathecal administration
Antinociception; Substance P; NMDA; Opioid; Spinal cord (Masuyama, T. (722) 200)

Intrathecal injection
Morphine; Scratch reflex; NK-1 receptor antagonist; Spinal cord (Sakurada, T. (724) 213)

Intravenous
Analgesia; Thalamus neuron; Morphine; Morphine-6-glucuronide; Intrathecal (Jurna, I. (722) 132)

Intrinsic activity
Muscarinic antagonist; Selectivity; Intact cerebellar granule cell (Saunders, P.A. (713) 29)

Intrinsic central neuron
Axotomy; Microglial cell; *Griffonia simplicifolia* isolectin B_4 (GSA I-B_4); Red nucleus; Spinal injury (Tseng, G.-F. (715) 32)

Inverse agonist
Benzodiazepine receptor; Rat; Cerebellum; RU 34347; γ-Aminobutyric acid; Flumazenil (Pringle, A.K. (715) 155)

Invertebrate
Ca^{2+}-binding protein; EF-hand; Mollusc; *Helix pomatia*; Immunocytochemistry; Electrophysiology (Kubista, H. (716) 53)

Mytilus edulis; Morphine; Nitric oxide; Microglia; Ganglion (Liu, Y. (722) 125)

NOS; Identified neuron; Central nervous system; Leech; *Hirudo medicinalis*; Annelid (Leake, L.D. (723) 115)

In vitro
Cortex; Brainstem; Chronic hypoxia; Neurophysiology; Brain slice (O'Reilly, J.P. (711) 203)

Rat; Spinal cord; Prolonged inhibition; GABA; $GABA_B$ (Lacey, G. (717) 76)

Bismuth; Rat; Astrocyte; Metallothionein (Cowan, K. (732) 106)

In vitro ACh release
Tacrine; Cortical synaptosome; Atropine; AF-DX 116; Pirenzepine; Muscarinic receptor (Svensson, A.-L. (726) 207)

In vivo
Rat brain; Oxidative stress; Ascorbic acid; Uric acid; Lipid peroxidation; Malonaldehyde; Antioxidant (Waterfall, A.H. (712) 102)

Dentate gyrus; Paired-pulse depression; Kindling; MK-801; *N*-Methyl-D-aspartate; γ-Aminobutyric acid (Gilbert, M.E. (732) 201)

Adenovirus; Hippocampus; Rat; Long-term potentiation (Kammesheidt, A. (736) 297)

In vivo brain microdialysis
Aspartate; Capillary electrophoresis; Laser-induced fluorescence detection; Dexfenfluramine; Frontal cortex; GABA; Glutamate; Serotonin (Rocher, C. (737) 221)

In vivo enzyme activity
α-Methyl tryptophan; Serotonin; Serotonin synthesis; Serotonergic mechanism (Ljubić-Thibal, V. (724) 222)

In vivo experiment
Fiber-optic plate; Video microscopy; Fluorescence microscopy; Calcium measurement; Hippocampus; Anoxia (Hirano, M. (732) 61)

In vivo microdialysis
Dopamine; Locomotion; Treadmill; Striatum; Neural transplantation; 6-Hydroxydopamine; Dynamic regulation (Hattori, S. (710) 45)

Brain stimulation; Rat; Noradrenaline; Neurotransmitter release (Florin-Lechner, S.M. (742) 89)

Inward rectifying current
1,1′-Dioctadecyl-3,3,3′,3′-tetramethylindocarbocyanine perchlorate (DiI); Sympathetic preganglionic neuron (SPN), visually identified; Whole-cell slice patch delayed rectifier current; Ca^{2+}-dependent current; A-current (Miyazaki, T. (743) 1)

Ion
Axotomy; Culture; Spinal cord injury; Calcium; Trauma; Gray matter; White matter (Rosenberg, L.J. (734) 349)

Ion channel
Spermine; Spermidine; Putrescine; Ganglion cell; Amacrine cell; Glutamate; NMDA receptor (Valentino, T.L. (713) 278)

Iontophoresis
Substance P; CP-99,994; Substance P(1–7); Wind-up; Nociception; Spinal cord; Rat (Budai, D. (710) 197)

Locus coeruleus; Rat; Caloric stimulation; GABA; Vestibulo-autonomic reflex; Labyrinthectomy; Electrical vestibular stimulation (Nishiike, S. (712) 84)

Acetylcholine; Dopamine; Glutamate; Nucleus accumbens; Striatum; Single-unit recording in ambulant rats (Kiyatkin, E.A. (713) 70)

Substantia nigra pars reticulata; D_2 dopamine receptor; Quinpirole; EEDQ; Pertussis toxin; Extracellular single unit recording (Martin, L.P. (729) 156)

Cannabinoid; Substantia nigra; Striatonigral; Local drug delivery; 2-Hydroxypropyl-β-cyclodextrin; γ-Aminobutyric acid inhibition (Tersigni, T.J. (733) 184)

Ion transport
Aging; Glucose; Hippocampus; Synaptic transmission; Brain slice (Roberts Jr., E.L. (708) 16)

[^{125}I]*p*-Iodoclonidine
Receptor autoradiography; Noradrenergic neuron; Morphometry; Neuromelanin (Klimek, V. (741) 263)

Ipsapirone
8-OH-DPAT; BMY 7378; Spiperone; Electroencephalography; Rhythmic slow activity; Serotonergic neuronal activity; REM sleep; Cat (Marrosu, F. (739) 192)

Ipsilateral projection
Correlation; Lateral geniculate nucleus; Superior colliculus; Double-labeling; Fluorescent tracer; Albino rat (Farid Ahmed, A.K.M. (706) 163)

Iron
Aluminum; Transferrin; Oligodendrocyte; Transferrin receptor; Manganese (Golub, M.S. (719) 72)

Substantia nigra; 6-Hydroxydopamine; Parkinson's disease; Rat (He, Y. (735) 149)

Aluminum; Confocal laser scanning microscopy; 2,7-Dichlorofluorescin diacetate; Laser microprobe mass spectrometry; Hippocampal neuron; Oxidative stress; Reactive oxygen species (Xie, C.X. (743) 271)

Irradiation
Lipopolysaccharide, intracerebral injection; Brain inflammation; Microglial activation; Monocyte recruitment; Rat (Montero-Menei, C.N. (724) 55)

Ischemia
Carotid ligation; Memory; CA1; Alzheimer's disease (Pappas, B.A. (708) 50)

Superoxide dismutase; Oxygen free radical; Excitotoxicity; Huntington's disease; Neurodegeneration; Basal ganglia (Medina, L. (708) 59)

Growth inhibitory factor; Glial fibrillary acidic protein; Reactive astrocyte; Regeneration; Metallothionein (Inuzuka, T. (709) 151)

Cystatin C; Apolipoprotein E; GFAP; Immunocytochemistry; Hippocampus; Gerbil (Ishimaru, H. (709) 155)

Tripeptide reduced glutathione; Astrocyte; Catabolism; ATP; Cysteine; Glutamate; Neurotoxicity; Sodium-potassium ATPase (Juurlink, B.H.J. (710) 229)

Brain; Hypoxia; Oxidation-reduction (redox); Perinatal; Rat (Yager, J.Y. (712) 230)

Anoxia; Reperfusion injury; Reoxygenation; Axon; Electron probe X-ray microanalysis; Peripheral nerve; Elemental composition (Lehning, E.J. (715) 189)

CA1; Carbon monoxide; Gene expression; Heme; Hippocampus; Hypoxia; Ischemic tolerance; Neuronal death; Neuroprotection; Protein synthesis; Stroke (Gage, A.T. (719) 172)

Acetylcholinesterase; Hippocampus; Muscarinic receptor; Synaptic plasticity (Huang, Y.-L. (722) 195)

AMPA; Dog; Glutamate receptor; Kainate; NMDA; Primate brain (Hof, P.R. (723) 77)

Peripheral nerve; Intracellular pH; Intracellular Ca^{2+}; Neuropathy; Fluorescent dye (Wächtler, J. (725) 30)

Transferrin; Ferritin; Delayed neuronal death; Astrocyte; Microglia; Oligodendrocyte; Immunocytochemistry (Ishimaru, H. (726) 23)

Neuronal damage; Gerbil; Recovery of function; Felbamate (Shuaib, A. (727) 65)

Apoptosis; Astrocyte; Hippocampus; Peptide; Rat; PACAP (Uchida, D. (736) 280)

Brain injury; Hypoxia; Development; Therapy; Neonate; Hypocalcemia (Sola, A. (741) 294)

Pramipexole; Nigrostriatal; Degeneration; Neuroprotection; Methamphetamine (Hall, E.D. (742) 80)

Ischemia-reperfusion damage
Adenosine; Ischemic injury; Ischemic tolerance; Neuronal culture; Preconditioning; N^6-(R)-phenylisopropyladenosine (R-PIA); 8-Sulphophenyl theophylline (SPT) (Reshef, A. (741) 252)

Ischemic depolarization
Focal cerebral ischemia; Penumbra; Forelimb; Postural reflex; Beam balance; Rat (Alexis, N.E. (706) 273)

Ischemic injury
Adenosine; Ischemia-reperfusion damage; Ischemic tolerance; Neuronal culture; Preconditioning; N^6-(R)-phenylisopropyladenosine (R-PIA); 8-Sulphophenyl theophylline (SPT) (Reshef, A. (741) 252)

Ischemic tolerance
Cerebral ischemia; Gerbil; HSP70; Microtubule-associated protein 2; Inclined plane (Kitagawa, K. (716) 39)

CA1; Carbon monoxide; Gene expression; Heme; Hippocampus; Hypoxia; Ischemia; Neuronal death; Neuroprotection; Protein synthesis; Stroke (Gage, A.T. (719) 172)

Transient global ischemia; Hyperbaric oxygen; Delayed neuronal death; Gerbil (Wada, K. (740) 15)

Adenosine; Ischemic injury; Ischemia-reperfusion damage; Neuronal culture; Preconditioning; N^6-(R)-phenylisopropyladenosine (R-PIA); 8-Sulphophenyl theophylline (SPT) (Reshef, A. (741) 252)

Isoelectric variant
Dentatorubral-pallidoluysian atrophy; CAG trinucleotide repeat; Two-dimensional electrophoresis; Lymphoblastoid cell; Post-translational modification (Yazawa, I. (732) 154)

Isoflurane
Cyclic GMP; Glutamate; Nitric oxide; Volatile anesthetic; Cultured neuron; Rat (Loeb, A.L. (734) 295)

Isolated field excitatory post-synaptic potential
Hippocampus; Current source density; Decay time constant; Late event; Stratum radiatum stimulation (Kolta, A. (737) 133)

Isolation rearing
Learning; Morris water maze; Scopolamine; Rat (Wongwitdecha, N. (715) 119)

Isoproterenol
AT-1 receptor antagonist; Magnocellular hypothalamic nuclei; Lamina terminalis; EXP 3174; Polyethylene glycol; Hypovolemia (Rowland, N.E. (742) 253)

IV group afferent
Capsaicin; Neurokinins; III group afferent; Muscle ergoceptor; Muscle nociceptor; Dorsal root; Ventral root; Oculomotor nerve (Della Torre, G. (713) 223)

J

Jaw movement
Chewing rhythm; Food texture; Central pattern generator; Masticatory EMG; Head posture; Freely moving rabbit (Yamada, Y. (706) 237)

Jaw muscle
Periodontal ligament; Mechanoreceptor; Reflex; Masticatory system; Teeth (Louca, C. (731) 63)

Jaw opening reflex
Manual acupuncture; Capsaicin; DNIC; Polymodal receptor; Rat; C fiber; Digastric EMG (Okada, K. (740) 201)

Jaw reflex
Nociception; Reflex modulation; Human (Cadden, S.W. (726) 189)

Joro spider toxin
Kindling; AMPA receptor; Calcium permeability; Anticonvulsant; 1-naphthylacetyl spermine (Takazawa, A. (706) 173)

Jugular ganglion
Calbindin D-28k; Calcitonin gene-related peptide; Immunohistochemistry; NADPH-diaphorase; Nodose ganglion; Petrosal ganglion; Tyrosine hydroxylase (Ichikawa, H. (735) 325)

Jun
Excitatory amino acid; Metabotropic glutamate; Glutamate; Fos (Kaatz, K.W. (709) 205)

c-Jun transcription factor
Bcl-2 gene family; Axotomy; Dorsal root ganglion; Immunohistochemistry; DNA fragmentation; Apoptosis (Gillardon, F. (739) 244)

K

KA / AMPA receptor
N-Methyl-D-aspartate; NBQX; Synaptic response; Retinal ganglion (Yu, W. (709) 184)

Kainate
GAP-43; Astrocyte; Ibotenic acid; Glial fibrillary acidic protein (GFAP); Hippocampus; Dentate gyrus; CA3 (Meberg, P.J. (706) 217)

Calcium; Hippocampal slice; Autofluorescence; Fura dye; Cyanide (Brooke, S.M. (706) 283)

GluR6; NBQX; SYM2081; Toxicity (Carver, J.M. (720) 69)

AMPA; Dog; Glutamate receptor; Ischemia; NMDA; Primate brain (Hof, P.R. (723) 77)

Excitotoxicity; Hippocampus; Infrared videomicroscopy; *N*-Methyl-D-aspartate; Neostriatum; Suprachiasmatic nucleus (Colwell, C.S. (724) 205)

c-*fos*; Cervical interneuron; Corticospinal tract; Sensorimotor cortex; Rat (Curfs, M.H.J.M. (725) 88)

Apomorphine; Excitotoxicity; Neostriatum; *N*-Methyl-D-aspartate; Metabotropic glutamate receptor; Quinolinic acid (Colwell, C.S. (726) 223)

Heat shock; Phencyclidine; Excitotoxicity; AMPA; Quisqualate; Hippocampus; Rat (Sharp, J.W. (728) 215)

NMDA; AMPA; Glutamate; Monkey; Pain; Microiontophoresis; Neurotransmission (Dougherty, P.M. (728) 267)

cGMP; *hph-1* mouse; Nitric oxide; Tetrahydrobiopterin (Brand, M.P. (735) 169)

Glucose deprivation; Glutamate; $[Ca^{2+}]_o$; Presynaptic Ca^{2+} influx; Field potential; Hippocampal slice; Rat (Alici, K. (738) 109)

Cortical neuron; Copper; Metal ion; Patch clamp; (*S*)-α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA); *N*-methyl-D-aspartate (NMDA) (Weiser, T. (742) 211)

3-Aminopropylarsonate; 2-Amino-4-arsonobutyrate; Epileptogenesis; Electrical kindling; *N*-Methyl-D-aspartate; Seizure; γ-Aminobutyric acid; Amygdala (Abdul-Ghani, A.-S. (742) 305)

Kainic acid
Cyclic response element-binding protein; Gene transcription; Astrocyte (Ferrer, I. (712) 159)

Hippocampus; CA1; CA3; Water maze; Passive avoidance; Spatial learning; Memory (Stubley-Weatherly, L.A. (716) 29)

Purine; Adenosine; Neuroprotection; Neurodegeneration (MacGregor, D.G. (725) 115)

Ascorbic acid; Vitamin C; Allopurinol; Free radical; Neuroprotection; Neurodegeneration (MacGregor, D.G. (727) 133)

Excitotoxin; Brain; Nitric oxide synthase; NADPH diaphorase; Glial cell; Endothelial cell (Lei, D.-L. (730) 199)

Nicotine; Neurotoxicity; Dexamethasone; Hippocampus (Semba, J. (735) 335)

Substance P; Neurokinin; Neostriatum; Neuroprotection; Rat; Choline acetyltransferase activity; Acetylcholinesterase (Calvo, N. (740) 323)

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(Kelli Pereira da Silva, R. (717) 38)

Kappa opioid
Sigma binding site; Guinea-pig brain; Liver; Spleen; Autoradiography; Receptor binding (Brent, P.J. (725) 155)

K^+-channel blocker
Synchronization; Hippocampus; K^+ concentration increase; Excitatory amino acid (Avoli, M. (735) 188)

K^+ concentration increase
Synchronization; Hippocampus; K^+-channel blocker; Excitatory amino acid (Avoli, M. (735) 188)

K^+ current
Sodium nitroprusside; Opiate receptor; *Aplysia* neurons (Sawada, M. (740) 124)

Chemoreceptor; Glomus cell; Hypoxia; Oxygen; Sheath cell (Chou, C.-L. (742) 34)

Kidney
Visceral afferent; Spinal cord; Immediate early gene; Reno-renal reflex; c-*fos*; Dorsal root ganglion; Albino rat (Fitch, G.K. (723) 199)

Kinaesthesia
Muscle spindle; Proprioception; Intrafusal; Elbow joint; Contraction; Stretch; Afferent; Sensation (Wise, A.K. (735) 125)

Kindling
AMPA receptor; Calcium permeability; Anticonvulsant; Joro spider toxin; 1-naphthylacetyl spermine (Takazawa, A. (706) 173)

$GABA_A$ receptor; Ethanol withdrawal; Hippocampus; Pentylenetetrazol (Kang, M. (709) 221)

Audiogenic seizure; Neuron; Inferior colliculus; Genetically epilepsy-prone rat (N'Gouemo, P. (710) 92)

CA1; Epilepsy; Hippocampus; Perforant path (Krahl, S.E. (723) 196)

Audiogenic rat; Seizure; [^{14}C]2-Deoxyglucose; Cerebral glucose utilization; Interictal metabolic level (Nehlig, A. (724) 97)

Epilepsy; Neuropsin gene; Serine protease; Plasticity; Limbic system; Cerebral cortex (Okabe, A. (728) 116)

N-Methyl-D-aspartate; 3-(2-Carboxypiperazine-4-yl)propyl-1-phosphonic acid; Caudate-putamen; Amygdala; Substantia nigra; Thalamus; Cerebral cortex (Osonoe, M. (728) 242)

Norepinephrine; Clonidine; Idazoxan; Locus ceruleus; Microinfusion; Amygdala (Shouse, M.N. (731) 203)

Dentate gyrus; In vivo; Paired-pulse depression; MK-801; *N*-Methyl-D-aspartate; γ-Aminobutyric acid (Gilbert, M.E. (732) 201)

Hyperthermia; Hippocampus; Synaptic Transmission; CA1; CA3; LTP; Rat (Minamiura, Y. (732) 209)

Kindling antagonism; Amygdala; Piriform cortex; Perirhinal cortex; Insular cortex; Seizure suppression (Mohapel, P. (733) 211)

Amygdala; Thalamus; Fatty acid; Palmitate; Lipid; Deoxyglucose; Brain; Plasticity; Seizure; Phospholipid; Phosphatidylcholine; Activation (Arai, T. (743) 131)

Kindling antagonism
Kindling; Amygdala; Piriform cortex; Perirhinal cortex; Insular cortex; Seizure suppression (Mohapel, P. (733) 211)

Kinematics
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Kinetic analysis
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Kinetic constant
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KN-62
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Krox-24
Immediate early gene; c-fos; c-jun; Vestibular nucleus; Vestibular compensation; Unilateral labyrinthectomy (Darlington, C.L. (735) 173)

K secretion
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L

L365,260
Vagus nerve; Nucleus tractus solitarius; Ventromedial hypothalamic nucleus; Area postrema; Pancreas; Ovariectomy; Cholecystokinin receptor; Devazepide; Food intake (Geary, N. (179) 179)

Whole-cell patch-clamp; Voltage-gated calcium current; U50488H; CCK-8 (Xu, T. (730) 207)

L1
Myelin associated glycoprotein; Myelin basic protein; Neuron–glia cell adhesion molecule; Development; Lateral superior olive; Auditory; MAG; MBP (Hafidi, A. (736) 35)

Labyrinth
Cardiovascular; Blood pressure; Sympathetic nervous system; Reticular formation (Steinbacher Jr., B.C. (720) 204)

Labyrinthectomy
Locus coeruleus; Rat; Caloric stimulation; GABA; Iontophoresis; Vestibulo-autonomic reflex; Electrical vestibular stimulation (Nishiike, S. (712) 84)

Lactation
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Arginine vasopressin; Estrogen; Oxytocin; Paraventricular nucleus; Progesterone (Thomas, A. (738) 48)

Immobilization stress; c-*fos*; Rat; Pregnancy; Corticosterone; Paraventricular nucleus
(Da Costa, A.P.C. (742) 177)

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AT-1 receptor antagonist; Magnocellular hypothalamic nuclei; EXP 3174; Isoproterenol; Polyethylene glycol; Hypovolemia (Rowland, N.E. (742) 253)

Laminin
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bFGF; Tenascin; Hemitransection; Rat brain; Hybridization, in situ; mRNA (Lippoldt, A. (730) 1)

L-amino acid decarboxylase
Photoperiod; Tyrosine hydroxylase; Immunocytochemistry; Arcuate nucleus; Median eminence; Hamster (Krajnak, K. (712) 95)

L(+)-2-amino-3-phosphonoproprionic acid
t-ACPD; (+)-α-methyl-4-carboxyphenylglycine; Carbachol; Hyperpolarization; Depolarization (Erdemli, G. (723) 1)

Lamprey
Tectum; Reticular formation; Visual input; Locomotion (Zompa, I.C. (718) 221)

Lanthanide
$GABA_A$ receptor; Septal neuron; Cultured neuron; Voltage clamp (Kumamoto, E. (723) 235)

Lanthanum
Ethanol; Physical dependence; $GABA_A$ receptor; Desensitization; Zinc; Dissociated neuron; Septum (Frye, G.D. (720) 101)

Lappaconitine
Hippocampus; Aconitine; 6-Benzoylheteratisine (Ameri, A. (738) 154)

Large dense-core vesicle
Axonal reticulum; Axonal transport; Sympathetic nerve; Small synaptic vesicle; Synaptophysin (Quatacker, J. (731) 101)

Larynx
Vestibular reflex; Posture; Respiration; Pharynx; Tongue (Siniaia, M.S. (736) 160)

Laser
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Laser Doppler
Dorsal column stimulation; Spinal cord stimulation; Skin vasodilation; Microcirculation; Spinal cord (Croom, J.E. (728) 281)

Laser-Doppler flowmetry
Parallel fiber; Cerebral blood flow; Glutamate; Nitric oxide; Metabolic regulation; Synaptic activity (Akgören, N. (710) 204)

Laser-induced fluorescence detection
Aspartate; Capillary electrophoresis; Dexfenfluramine; Frontal cortex; GABA; Glutamate; In vivo brain microdialysis; Serotonin (Rocher, C. (737) 221)

Laser microprobe mass spectrometry
Aluminum; Confocal laser scanning microscopy; 2,7-Dichlorofluorescin diacetate; Hippocampal neuron; Iron; Oxidative stress; Reactive oxygen species (Xie, C.X. (743) 271)

Lashley maze
Autoimmunity; Cortex; Cortical development; Dyslexia; Enriched environment; Ectopia; Hebb-Williams maze; Morris maze; Neuronal migration; Reference memory (Boehm, G.W. (726) 11)

Late event
Hippocampus; Isolated field excitatory postsynaptic potential; Current source density; Decay time constant; Stratum radiatum stimulation (Kolta, A. (737) 133)

Latent inhibition
Medial septum/diagonal band complex; Conditioned taste aversion; 192-Saporin; Attention (Dougherty, K.D. (736) 260)

Conditioned emotional response; C-*fos* immunohistochemistry; Auditory system; Limbic system; Rat brain (Sotty, F. (737) 243)

Lateral gastrocnemius
Human gait; Sural nerve; Reflex gain; Exteroceptive reflex; Medial gastrocnemius; Biceps femoris (Duysens, J. (727) 230)

Lateral geniculate nucleus
Correlation; Ipsilateral projection; Superior colliculus; Double-labeling; Fluorescent tracer; Albino rat (Farid Ahmed, A.K.M. (706) 163)

Magnocellular; Parvocellular; Visual cortex; Parallel processing; Immunohistochemistry (Chaudhuri, A. (709) 17)

Intergeniculate leaflet; Geniculohypothalamic tract; Suprachiasmatic nucleus; Circadian rhythm; Neuropeptide Y; Cat (Pu, M. (725) 247)

Cortical modulation; Temporal tuning (Marrocco, R.T. (737) 110)

Striate cortex; Adrenergic receptor; Development; Noradrenaline; Synaptic plasticity (Muguruma, K. (740) 131)

Receptive field; Linear/non-linear contrast integration; Second harmonics; Shift effect; Visual system (Funke, K. (742) 50)

Lateral habenular nucleus
Retina; Fluorescent retrograde tracer; Selective silver impregnation; Albino rat (Qu, T. (709) 251)

Lateralisation
Dopamine D_1 receptor; Dopamine D_2 receptor; Rat; Quantitative autoradiography; Aging (Giardino, L. (720) 235)

Laterality
Stress; Dopamine; 6-Hydroxydopamine; Medial prefrontal cortex; Nucleus accumbens; Striatum (Carlson, J.N. (711) 1)

Lateral preoptic area
Brain stimulation reward; Basal forebrain; Immediate early genes; Medial forebrain bundle; Substantia innominata (Arvanitogiannis, A. (720) 148)

Lateral septal nucleus
Alcohol; SCH-23390; SKF-38393; Paired-pulse responses; Dentate gyrus (Criado, J.R. (716) 192)

Circadian rhythm; [^{3}H]D-Aspartate; Ventromedial hypothalamic nucleus; Posterior hypothalamic nucleus; Paraventricular thalamic nucleus (Moga, M.M. (743) 171)

Lateral septum
Anxiety; Benzodiazepine; Medial septum; Midazolam; Ro 15-1788 (Pesold, C. (710) 161)

Anxiety; Fos; Stress; Anxiety; Animal model; Medial prefrontal cortex; Amygdala; Hypothalamus; Limbic cortex (Duncan, G.E. (713) 79)

Hippocampus; Spatial memory; Chlordiazepoxide; Lesion; Anxiety (Farber, H.T. (725) 257)

Synaptic potentiation; Long-term potentiation; Fimbria; CA3; Rat (Garcia, R. (737) 169)

Lateral superior olive
Myelin associated glycoprotein; Myelin basic protein; Neuron–glia cell adhesion molecule; Development; Auditory; MAG; MBP; L1 (Hafidi, A. (736) 35)

Late recurrent discharge
Subiculum; Seizure-like events; Low magnesium; Membrane-potential change; Field potential; 5-HT (Behr, J. (737) 331)

Layer V
Auditory cortex; Cochlear nucleus; Corticofugal; Efferent; Fast blue (Weedman, D.L. (706) 97)

Synaptic plasticity; Motor cortex; Restoration of function; Motor learning; Stereology; Forelimb behavior (Jones, T.A. (733) 142)

L6 cell
Trinucleotide repeat; Cyclic AMP regulated sequence; E-box; C6 cell; PC12 cell (Song, W. (721) 204)

LDTg
Acetylcholine; Visual cortex; Muscarinic-nicotinic receptor; DLG; Rat (Lewandowski, M.H. (706) 233)

Lead
Short-term potentiation; Long-term potentiation; NMDA; Excitatory postsynaptic potential; Electrophysiology; Extracellular recording; Neurotoxicity (Grover, C.A. (734) 61)

Dentate gyrus; Long-term potentiation; Hippocampus; Rat; Neurotoxicity; Learning and memory (Gilbert, M.E. (736) 118)

Calcium current; PC12 cell; Patch clamp; Neurotoxicity (Hegg, C.C. (738) 333)

Learned helplessness
Desipramine; $GABA_B$ receptor; $GABA_A$ receptor; Rat (Nakagawa, Y. (728) 225)

$GABA_B$ receptor; $GABA_A$ receptor; Depression model; Rat (Nakagawa, Y. (741) 240)

Learning
Domestic chick; Passive-avoidance learning; Neuronal plasticity; NMDA receptor (Bradley, P.M. (708) 100)

Isolation rearing; Morris water maze; Scopolamine; Rat (Wongwitdecha, N. (715) 119)

Immediate early gene; Olfactory preference; Immunohistochemistry; Development; Olfactory bulb (Woo, C.C. (716) 149)

Cerebral ischemia; Neuronal death; Hippocampus; Memory; LY231617; Angiotensin IV; Circular water maze; Passive avoidance conditioning; Rat (Wright, J.W. (717) 1)

Cholinergic mechanism; Reinforced response; Memory; Microdialysis (Orsetti, M. (724) 89)

Chick; Morphology; Plasticity; Electrophysiology (Bradley, P.M. (727) 125)

Long-term memory; Protein kinase A; cAMP analog; Habituation; Crustacea (Romano, A. (735) 131)

Dentate; Fastigial; Rehabilitation (Amrani, K. (740) 275)

Nucleus tractus solitarius; c-Fos; Lithium chloride; Aversion conditioning (Schafe, G.E. (741) 109)

Learning and memory
Autoradiography; Dopamine receptor; Auditory imprinting; Postnatal development; Chick (Schnabel, R. (720) 120)

Opioid peptide; Dense-core vesicle; Dentate gyrus; Mossy fiber; Electron microscopy (Commons, K.G. (724) 1)

Sigma (σ) agonists; PRE-084; Aging; Passive avoidance; Y-maze; Water-maze; JO-1784 (igmesine); Senescence-accelerated mouse (SAM) (Maurice, T. (733) 219)

Dentate gyrus; Long-term potentiation; Lead; Hippocampus; Rat; Neurotoxicity (Gilbert, M.E. (736) 118)

Lectin
Amphibian; Frog; Olfactory system; Accessory olfactory system; Extra-bulbar olfactory system; Acoustic system; Soybean agglutinin (Meyer, D.L. (722) 222)

Glycoconjugate; Histochemistry; Olfactory receptor; Vomeronasal receptor; Olfactory bulb; Microglia; Turtle (Franceschini, V. (725) 81)

Lectin binding
Extracellular matrix; Cerebral cortex; Basal forebrain; Reticular thalamic nucleus; Red nucleus; Rat (Brückner, G. (720) 84)

Lectin histochemistry
Apoptosis; DNA fragmentation; Olidodendroglial cell; Neuroglial cell; Terminal transferase; Hypomyelination (Vela, J.M. (712) 134)

Leech
NOS; Identified neuron; Central nervous system; *Hirudo medicinalis*; Annelid; Invertebrate (Leake, L.D. (723) 115)

Lesion
Amino acid; Glutamate; Superior colliculus; γ-Glutamyl dipeptide; Optic nerve (Li, X. (706) 89)

Muscarinic receptor; Medial septum; Hippocampus; Sympathetic ingrowth; Protein kinase C; PKC activity; Plasticity (Ayyagari, P.V. (708) 205)

Cocaine; Memory; Amygdala; One-trial inhibitory avoidance (Cestari, V. (713) 286)

Hippocampus; Lateral septum; Spatial memory; Chlordiazepoxide; Anxiety (Farber, H.T. (725) 257)

Nucleus basalis magnocellularis; Acetylcholine; Rat; Ablation; Palmitate; Neuroplasticity; Membrane; Remodeling; Alzheimer disease; Phospholipid; Phosphatidylcholine (De Micheli, E. (735) 36)

Immunotoxin; Saporin; Noradrenaline; Locus coeruleus; Rat (Wrenn, C.C. (740) 175)

Subventricular zone; Precursor cell; Proliferation; GFAP; [^{3}H]Thymidine; Migration (Weinstein, D.E. (743) 11)

Leukemia inhibitory factor
Interleukin-6; Interleukin-6 receptor; Glycoprotein gp130; Ciliary neurotrophic factor; Wobbler; Motoneuron disease (Ikeda, K. (726) 91)

Leukocyte
Cerebral ischemia; Cerebral infarction; Microglia; Immunohistochemistry; Inflammation; Rat (Kato, H. (734) 203)

Leupeptin
Peripheral nerve; Aprotinin; APP; Serpin; Deposit; Schwann; Anchoring junction; Desmosome; Alzheimer (Moreno, R.D. (718) 13)

Levochromakalim
Alzheimer's disease; Diazoxide; Dichlorofluorescin; Hydrogen peroxide; Pinacidil (Goodman, Y. (706) 328)

Levodopa
Basal ganglia; 2-Deoxyglucose autoradiography; Regional cerebral glucose utilization (Trugman, J.M. (725) 177)

6-Hydroxydopamine; Motor fluctuation; MK801; Rotation (Marin, C. (736) 202)

Lewis rat
Microdialysis; Dopamine; Ethanol; Strain difference; Fischer 344 rat; Nucleus accumbens (Mocsary, Z. (706) 194)

Lidocaine
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Medial septal area; Reversible inactivation; Tetrodotoxin; Reference memory; Working memory (Rashidy-Pour, A. (709) 131)

Scrotal thermal stimulation; Ventromedial hypothalamic neuron; Medial preoptic nucleus blockade (Li, Q. (716) 134)

Cocaine; Local anesthetics; Seizure; Drug interaction (Barat, S.A. (742) 157)

Ligation of bilateral common carotid artery
Chronic hypoperfusion; Muscarinic acetylcholine receptor; Incomplete ischemia; Wistar rat; Rarefaction; Cerebrovascular type dementia; Discrimination learning (Tanaka, K.-i. (729) 55)

Light
Circadian rhythm; Immediate early gene; Fos; Suprachiasmatic nucleus; Substance P; Spantide; Retinohypothalamic tract (Abe, H. (708) 135)

Chronobiology; Circadian rhythm; Melatonin; Suprachiasmatic nucleus; Pineal gland (Hätönen, T. (710) 125)

Pyroglutamyl peptidase I; Asymmetry; Retina; Hypothalamus; Darkness; Rat (Sánchez, B. (731) 254)

Suprachiasmatic nucleus; Circadian rhythm; *junB*; Gene expression; Immediate-early gene; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (732) 215)

Suprachiasmatic nucleus; Circadian rhythm; *fosB*; c-*fos*; Gene expression; Immediate-early gene; Entrainment; Transcription regulation (Guido, M.E. (739) 132)

Light- and dark-adaptation
Cone pedicle; Horizontal cell; Synaptic plasticity; Dopamine; Nucleolus-like body; Efferent fiber (De Juan, J. (707) 213)

Light–dark cycle
Alzheimer's disease; Melatonin; Circadian rhythm; Suprachiasmatic nucleus; Sleep–wake cycle; Delirium; Pineal gland (Uchida, K. (717) 154)

Light reflectance
Arousal; Optical imaging; Sleep; Paraventricular hypothalamus; PVH; PVN; REM; Waking; Slow wave; Neuroendocrine (Kristensen, M.P. (727) 107)

Limbic
Neurotensin; Dopamine; Neuropeptide; Extrapyramidal; Antipsychotic; Microdialysis (Wagstaff, J.D. (721) 196)

Limbic / autonomic cortex
Medial prefrontal cortex; Cortical module; Pyramidal neuron; Apical dendritic bundle/cluster (Gabbott, P.L.A. (730) 75)

Limbic cortex
Anxiety; Fos; Stress; Anxiety; Animal model; Medial prefrontal cortex; Lateral septum; Amygdala; Hypothalamus (Duncan, G.E. (713) 79)

Limbic forebrain
Morphine; Dopamine metabolism; Ascorbic acid oxidation; Withdrawal; Excitotoxicity; Striatum (Desole, M.S. (723) 154)

[^{3}H]Nisoxetine; [^{3}H]Cyanoimipramine; Autoradiography; Hypothalamus (Belej, T. (736) 287)

Limbic-motor integration
Nucleus accumbens; Subpallidal area; Ventral tegmental area; Single unit recording; Dextran-conjugated-rhodamine tracer (Wu, M. (740) 151)

Limbic striatum
Cyclic adenosine monophosphate-regulated phosphoprotein-21 (ARPP-21); Promoter; Gene structure; Transfection; Repression (Ivkovic, S. (709) 10)

Limbic system
Monoclonal antibody; Regional specificity; Immunohistochemistry; Western blot; Synapse; Hippocampus (Fukuyama, R. (719) 194)

Synapse; Cortical circuit; Autonomic function (Bacon, S.J. (720) 211)

Glutamate; Epilepsy; Anticonvulsant drug; Rat; Hippocampus (Löscher, W. (725) 252)

Epilepsy; Kindling; Neuropsin gene; Serine protease; Plasticity; Cerebral cortex (Okabe, A. (728) 116)

Anxiety; Basolateral nucleus; Carbamazepine; Epilepsy (Ebert, U. (733) 193)

Latent inhibition; Conditioned emotional response; C-*fos* immunohistochemistry; Auditory system; Rat brain (Sotty, F. (737) 243)

Tonic pain; Chronic pain; Brain stimulation; Stimulation-produced analgesia; Antinociception (Fuchs, P.N. (743) 116)

Limbic thalamus
Cingulate cortex; Single-unit activity; Avoidance learning; Discrimination; Pre-motor neuronal activity (Kubota, Y. (721) 22)

Lindane
GABA receptor subunit; Hexachlorocyclohexane; HCH isomer; Insecticide; Chloride current; Human embryonic kidney cell (Nagata, K. (738) 131)

Linear / non-linear contrast integration
Lateral geniculate nucleus; Receptive field; Second harmonics; Shift effect; Visual system (Funke, K. (742) 50)

Linear $V1_a$-antagonist choroid plexus
Human brain; Vasopressin binding sites; Alzheimer's disease; Cerebrospinal fluid (Korting, C. (706) 151)

Linolenic / linoleic acid
Alzene; Working and reference spatial memory; Passive avoidance; Medial septum; Essential fatty acid (Riekkinen Jr., P. (714) 118)

Lipid
Kindling; Amygdala; Thalamus; Fatty acid; Palmitate; Deoxyglucose; Brain; Plasticity; Seizure; Phospholipid; Phosphatidylcholine; Activation (Arai, T. (743) 131)

Lipid peroxidation
In vivo; Rat brain; Oxidative stress; Ascorbic acid; Uric acid; Malonaldehyde; Antioxidant (Waterfall, A.H. (712) 102)

Cerebrocortical synaptosome; Intracellular calcium; Calcium uptake; Calcium-dependent ATPase (Pereira, C. (713) 269)

α-Lipoic acid
Cerebral ischemia; Reperfusion; Brain; Oxidative stress; Glutathione (Panigrahi, M. (717) 184)

Lipopolysaccharide
Depression; Saccharin preference; Sexual behavior; Anorexia; Body weight; Social exploration; Open-field test; Tricyclic antidepressant; Imipramine (Yirmiya, R. (711) 163)

Apoptosis; Endotoxin; Hippocampus; Hypothalamus; Interleukin-1β; Pituitary (Tingsborg, S. (712) 153)

Protein tyrosine kinase inhibitor; Nitric oxide; Inducible nitric oxide synthase; Microglia; Astrocyte (Kong, L.-Y. (729) 102)

Interleukin-6; Tumor necrosis factor; Interleukin-1; Transgenic mice (Di Santo, E. (740) 239)

Lipopolysaccharide, intracerebral injection
Brain inflammation; Microglial activation; Monocyte recruitment; Rat; Irradiation (Montero-Menei, C.N. (724) 55)

Lipoprotein
Frog taste response; Inhibition of bitter response (Katsuragi, Y. (713) 240)

Lipoprotein associated coagulation inhibitor
Neurodegeneration; Microglia; Senile plaque; Dementia; Proteinase inhibitor (Hollister, R.D. (728) 13)

Lipoxygenase
Laminin; Axon; Growth cone; Lysophosphatidic acid; Protein kinase C; Ceramide (Smalheiser, N.R. (721) 39)

12-Lipoxygenase metabolite
Hippocampus; Long-term depression; Phospholipase A_2; Arachidonic acid (Normandin, M. (730) 40)

Lithium
Antidepressant; Astrocyte; Calcium; Noradrenaline (Chen, Y. (711) 245)

Lithium chloride
Nucleus tractus solitarius; c-Fos; Learning; Aversion conditioning (Schafe, G.E. (741) 109)

Liver
Kappa opioid; Sigma binding site; Guinea-pig brain; Spleen; Autoradiography; Receptor binding (Brent, P.J. (725) 155)

Liver failure
Ammonia; Muscimol; Flunitrazepam; $GABA_A$ receptor (Ha, J.-H. (720) 35)

Local anesthetic
PC12 cell; Nerve growth factor; Cocaine; Neuronal differentiation; Benzoylecgonine; Ecgonine methyl ester (Zachor, D.A. (729) 270)

Local anesthetics
Cocaine; Lidocaine; Seizure; Drug interaction (Barat, S.A. (742) 157)

Local circuit neuron
Thalamus; GABA; Confocal microscopy (Meng, X.-W. (728) 111)

Local drug delivery
Cannabinoid; Substantia nigra; Striatonigral; Iontophoresis; 2-Hydroxypropyl-β-cyclodextrin; γ-Aminobutyric acid inhibition (Tersigni, T.J. (733) 184)

Localization
Galanin; Galanin receptor; Radioreceptor assay; Immunohistochemistry; Brain; Quail (Azumaya, Y. (727) 187)

Locomotion
Dopamine; Treadmill; Striatum; Neural transplantation; 6-Hydroxydopamine; Dynamic regulation; In vivo microdialysis (Hattori, S. (710) 45)

ORG 2766; Amygdala; Behavior; Hyperactivity (Van Rijzingen, I.M.S. (717) 200)

Tectum; Reticular formation; Visual input; Lamprey (Zompa, I.C. (718) 221)

Hippocampus; Automatism; Seizure; Dopamine; γ-Aminobutyric acid (Ma, J. (739) 26)

Group Ib afferent; Reflex-reversal; Human (Stephens, M.J. (743) 24)

Locomotor
Infant convulsion; Hyperthermia; Pentylenetetrazol; Morris water maze; Activity; Convulsion susceptibility (Kornelsen, R.A. (706) 155)

Locomotor activity
Conditioned place preference; Ventral pallidum; Reward; Cocaine; Amphetamine; Dopamine; Procaine; Nucleus accumbens (Gong, W. (707) 64)

Nucleus accumbens; NMDA receptor/glycine site; Cocaine; Sensitization (Khan, M.A. (719) 198)

Dopamine D_3 receptor; 7-Hydroxy-DPAT; PD128907; Huddling behavior; Rat (Kagaya, T. (721) 229)

Neuropeptide Y; Arousal; Corticotropin-releasing hormone; Sodium pentobarbital; Psychological stress; Sedative action (Yamada, K. (725) 272)

DNQX; Ventral tegmental area; Amphetamine (Dalia, A. (728) 209)

Anxiety; Fear; Amygdala; Fear-potentiated startle; Neuropeptide; Rat (Frankland, P.W. (733) 129)

Cocaethylene; Cocaine; Sensitization; Drug bioavailability (Horger, B.A. (733) 133)

Benzodiazepine; Tolerance; Withdrawal; Exploration; Serum level (Fernandes, C. (734) 236)

Amisulpride; Nafadotride; Antipsychotic; Nucleus accumbens (Barik, S. (737) 347)

Circadian rhythm; Phase shift; Immediate-early gene; Protein synthesis inhibitor; Cycloheximide (Zhang, Y. (740) 285)

WKHA rat; Inbred rat strain; Stress; Anxiety; Factor analysis; Neuroendocrinology; F2 intercross (Courvoisier, H. (743) 77)

Restraint; Oxotremorine; Acetylcholine; Muscarinic receptor; Prefrontal cortex; DBA/2 mice (Pullia, D. (743) 333)

Locomotor behavior
Circadian rhythm; *Tau* mutant hamster; Suprachiasmatic nucleus; Vasopressin; Vasoactive intestinal peptide (Scarbrough, K. (736) 251)

Locomotor response
Corticosterone; Cocaine; Metyrapone; Stress-induced sensitization; Food restriction; Psychomotor effects (Marinelli, M. (724) 251)

Locus coeruleus
Spinal cord; Glycine; Strychnine; Allodynia; Voltammetry; Excitatory amino acid (Milne, B. (718) 198)

Norepinephrine; Clonidine; Idazoxan; Microinfusion; Amygdala; Kindling (Shouse, M.N. (731) 203)

Piriform cortex; Cholera toxin B subunit; Dopamine; Dopamine β-hydroxylase; Tyrosine hydroxylase; Ventral tegmental area (Datiche, F. (710) 69)

Rat; Caloric stimulation; GABA; Iontophoresis; Vestibulo-autonomic reflex; Labyrinthectomy; Electrical vestibular stimulation (Nishiike, S. (712) 84)

Nociception; Noradrenaline; Morphine; Naloxone; C-fiber (Hirata, H. (714) 9)

β(25–35); Medial septum; Tyrosine hydroxylase; Glutamate; Choline acetyltransferase (Chen, S.-Y. (715) 44)

Tyrosine hydroxylase; Mouse; Perikarya; Neuropile; Plasticity; Immunoautoradiography; Topology (Ginovart, N. (719) 45)

β(25-35); Norepinephrine; Spatial learning (Chen, S.-Y. (720) 54)

Tyrosine hydroxylase; Plasticity; Mouse; Immunocytochemistry; Topology (Ginovart, N. (721) 11)

Galanin; Baroreceptor reflex response; Galanin antiserum; Nucleus tractus solitarii; Rat (Shih, C.-D. (721) 76)

Corticotropin-releasing factor; Stress; Electrophysiology; Depression; Desensitization; Blood pressure (Conti, L.H. (722) 19)

Morphine; Butorphanol; Physical dependence; Glutamate; Microdialysis; Diltiazem; L-type Ca^{2+} channels (Tokuyama, S. (722) 212)

Morphine; Glucose utilization; 2-Deoxyglucose; Amygdala; Metabolic rate (Kraus, M.A. (724) 33)

Corticotropin-releasing hormone; CRH; Corticotropin-releasing factor; CRF; Electrophysiology (Borsody, M.K. (724) 149)

Selective breeding; Swim test; Animal model of depression; Norepinephrine; Dopamine (Scott, P.A. (725) 217)

Hyperalgesia; Inflammation (Tsuruoka, M. (726) 233)

Brain–gut axis; Gastric secretion; Corticotropin-releasing factor; Autonomic nervous system; Stress (Mönnikes, H. (728) 157)

Sacral parasympathetic nucleus; Corticotropin-releasing hormone; Biocytin; Retrograde tracing; Anterograde tracing (Valentino, R.J. (732) 1)

Catecholamine; In situ hybridization; Ventral tegmental area; Tyrosine hydroxylase; Transporter (Figlewicz, D.P. (736) 54)

Morphine; Withdrawal syndrome; Naloxone; Voltammetry; Nitric oxide synthase inhibitor (Hall, S. (739) 182)

Immunotoxin; Saporin; Noradrenaline; Lesion; Rat (Wrenn, C.C. (740) 175)

Norepinephrine; Dopamine; Nigrostriatal; Uptake; Transporter; Neurotoxicity (Dluzen, D.E. (741) 215)

Hyperalgesia; Inflammation; Naloxone (Tsuruoka, M. (743) 86)

Locust
Insect; Flight; Motor pattern; Temperature; Membrane potential; PSP amplitude (Xu, H. (734) 213)

Long-term adrenalectomy
Short-term adrenalectomy; Glucocorticoid receptor; Immunohistochemistry; Silver impregnation; Forebrain; Rat (Visser, D.T.M. (729) 216)

Long-term depression
Age-dependency; Input-specificity; Heterosynaptic depression; Spiking threshold; NMDA receptor; Low-frequency stimulation (Staubli, U.V. (714) 169)

Long-term potentiation; Seizure; Hippocampus; Synaptic plasticity (Abraham, W.C. (722) 217)

Hippocampus; Phospholipase A_2; Arachidonic acid; 12-Lipoxygenase metabolite (Normandin, M. (730) 40)

Long-term memory
Learning; Protein kinase A; cAMP analog; Habituation; Crustacea (Romano, A. (735) 131)

Long-term potentiation
Benzodiazepine; Chlordiazepoxide; Flumazenil; Medial septum; Hippocampus; Dentate gyrus; Field potential; Synaptic plasticity (Stackman, R.W. (717) 12)

Basolateral amygdala; Dentate gyrus; Field potential; Paired-pulse facilitation; Amygdalo-hippocampal interaction; Anesthetized rat (Ikegaya, Y. (718) 53)

Serotonin; Serotonin 5-HT_{1B} receptor; Subiculum; Glutamatergic transmission (Boeijinga, P.H. (721) 59)

Long-term depression; Seizure; Hippocampus; Synaptic plasticity (Abraham, W.C. (722) 217)

Hippocampus; CA1; Discriminatory avoidance learning (Izaki, Y. (723) 162)

Pigeon hippocampus; NMDA receptor (Shapiro, E. (725) 199)

Hippocampus; L-Fucose; 2́-Fucosyllactose; Glycoprotein (Matthies, H. (725) 276)

N-Methyl-D-aspartate (NMDA) receptor; Depotentiation; FK506; Calcineurin; Cyclosporin A; Synaptic plasticity; Hippocampus (Lu, Y.-F. (729) 142)

Nitric oxide synthase; Immunocytochemistry; Densitometry; Histochemistry; CA1 (Vaid, R.R. (733) 31)

Perirhinal cortex; NMDA; Associative; Memory (Bilkey, D.K. (733) 297)

Medial septal area; Recurrent inhibition; Hippocampus; Tetrodotoxin; Reversible inactivation (Rashidy-Pour, A. (734) 43)

Short-term potentiation; Lead; NMDA; Excitatory postsynaptic potential; Electrophysiology; Extracellular recording; Neurotoxicity (Grover, C.A. (734) 61)

Dentate gyrus; Lead; Hippocampus; Rat; Neurotoxicity; Learning and memory (Gilbert, M.E. (736) 118)

Hippocampus; Postsynaptic; Glutamate receptor binding; Environmental enrichment; Memory (Foster, T.C. (736) 243)

Adenovirus; Hippocampus; Rat; In vivo (Kammesheidt, A. (736) 297)

Synaptic potentiation; Fimbria; Lateral septum; CA3; Rat (Garcia, R. (737) 169)

Mineralocorticoid receptor; Glucocorticoid receptor; Aldosterone; Corticosterone; Synaptic plasticity; CA1 (Pavlides, C. (738) 229)

Plasminogen; Plasmin; α_2-Antiplasmin; Short-term potentiation; NMDA receptor; Hippocampal slice; Rat (Mizutani, A. (739) 276)

Protein kinase C; F1/GAP-43; Mossy fiber; Phosphorylation; Hippocampus (Son, H. (739) 282)

Lordosis
Nociception; Pain sensitivity; Tailflick latency; Steroid hormone; Progestin; Membrane mechanism; Non-genomic; γ-Aminobutyric acid (Frye, C.A. (709) 1)

Benzodiazepine; Back muscle; Progesterone; Midbrain central gray (MCG); Periaqueductal gray (PAG); Reticular formation; Muscle relaxant (Schwartz-Giblin, S. (710) 178)

Microdialysis; 5HT; Progesterone; Ventromedial hypothalamus; Preoptic area; Midbrain central grey (Farmer, C.J. (711) 84)

Lordosis behavior
5-$HT_{2A/2C}$ antagonist; Intact proestrous rat; Ovariectomized rat (Uphouse, L. (718) 46)

Lower motor neuron
Substance P; Thyrotropin-releasing hormone; Ventral raphe-spinal pathway; Neurotrophic factor (Van den Bergh, P. (707) 206)

Low-frequency stimulation
Long-term depression; Age-dependency; Input-specificity; Heterosynaptic depression; Spiking threshold; NMDA receptor (Staubli, U.V. (714) 169)

Low liability to abuse
$GABA_A$ receptors; Benzodiazepine site; U-101017; Cloned $GABA_A$ receptors (Im, H.K. (714) 165)

Low magnesium
Subiculum; Seizure-like events; Late recurrent discharge; Membrane-potential change; Field potential; 5-HT (Behr, J. (737) 331)

Low-threshold mechanoreceptors
Axon excitability; Activity dependence; Conduction latency; Electrical stimulation; Sciatic nerve; Rat (Waikar, S.S. (721) 91)

Low voltage fast activity
Electrocorticogram; Neocortex; Serotonin (5-HT); 5-HT agonist; 5-HT receptor (Dringenberg, H.C. (728) 181)

LP-BM5 virus
Astrocyte; Microglia; Mouse; Dementia; AIDS (Kustova, Y. (742) 271)

LPS
Astrocyte; Nitric oxide; ET-18-OCH_3; Platelet activating factor; PAF; CPAF; BN 50730 (Cardile, V. (715) 98)

LRP
Amyloid precursor protien; Nexin; Amyloid; ApoE; Alzheimer; Receptor associated protein (Knauer, M.F. (740) 6)

L-system
Amino acid transport; Arginine vasopressin; Blood–brain barrier; Kinetic constant; Tyrosine; Valine (Reichel, A. (713) 232)

LTP
Hyperthermia; Hippocampus; Synaptic Transmission; CA1; CA3; Kindling; Rat (Minamiura, Y. (732) 209)

Lumbar spinal cord
Noradrenaline; Ventral horn; Microdialysis; Transmitter release; Neurotoxin; Electrolytic lesion; Rat (Leanza, G. (738) 281)

Luteinizing hormone
Progesterone; Sexual behavior; Ventromedial hypothalamus; Preoptic area; Female; Sheep (Blache, D. (741) 117)

Luteinizing hormone-releasing hormone
Gonadotropin-releasing hormone; Olfactory marker protein; Peripherin; Olfactory bulb; Rat; Immunocytochemistry; Di-I (Santacana, M. (734) 337)

LY231617
Cerebral ischemia; Neuronal death; Hippocampus; Learning; Memory; Angiotensin IV; Circular water maze; Passive avoidance conditioning; Rat (Wright, J.W. (717) 1)

LY 235959
NMDA receptor antagonist; MK-801; D-Ala^2, Glu^4 deltorphin II; δ_2 opioid receptor agonist; Mice; Analgesic; Tolerance (Bhargava, H.N. (719) 56)

LY 171555
Corticosteroid receptor; C57BL/6; DBA/2; Hippocampus; Passive avoidance; SKF 38393; SCH 23390; (−)-Sulpiride (Cabib, S. (729) 110)

Lyapunov exponent
Somatosensory cortex; Anesthetized rat; Periodic medial lemniscus stimulation; Field potential; Phase-locking; Chaos; One-dimensional strobomap; Strange attractor; Period doubling-bifurcation; Correlation dimension (Ishizuka, S. (723) 46)

Lymnaea stagnalis
Anesthetic; Identified neuron; FMRFamide; Cell culture; Synaptic transmission (Spencer, G.E. (714) 38)

Lymphoblastoid cell
Dentatorubral-pallidoluysian atrophy; CAG trinucleotide repeat; Two-dimensional electrophoresis; Isoelectric variant; Post-translational modification (Yazawa, I. (732) 154)

Lymphocyte
Sympathetic nerve; Spleen; Ventromedial hypothalamus; Mitogenic response; Glucocorticoid (Okamoto, S. (739) 308)

Lys-γ_2-MSH-like immunoreactivity
Immunohistochemistry; Brain; Heart; Vascular system; Rat (Fodor, M. (731) 182)

Lysine deficiency
Gustation; Nutrition; Nutritional; NaCl (Tabuchi, E. (739) 139)

Lysophosphatidic acid
Laminin; Axon; Growth cone; Lipoxygenase; Protein kinase C; Ceramide (Smalheiser, N.R. (721) 39)

M

μ
Autonomic; δ; Enkephalin; ICI 154,129; Naloxone; Opioid; Solitarius; Vagal (Feldman, P.D. (709) 331)

Macaque
Monkey; Taste; Amygdala; Satiety; Flavor (Yan, J. (740) 193)

α_2-Macroglobulin
α_2-Macroglobulin receptor; Neurite-promoting factor; Cerebral cortex; Neuron (Ishii, M. (737) 269)

α_2-Macroglobulin receptor
α_2-Macroglobulin; Neurite-promoting factor; Cerebral cortex; Neuron (Ishii, M. (737) 269)

Macropatch
Protein kinase A; Forskolin; diB-cAMP; Sp-cAMPS; Miniature end-plate current; Tadpole; *Bufo marinus* (Quiñonez, M. (737) 327)

Macrophage
Heme oxygenase; Astrocyte; Microglia; Bergmann glia; Heat shock protein (Fukuda, K. (736) 68)

Penumbra; NF-κB; Microglia; Astrocyte (Terai, K. (739) 343)

MAG
Myelin associated glycoprotein; Myelin basic protein; Neuron–glia cell adhesion molecule; Development; Lateral superior olive; Auditory; MBP; L1 (Hafidi, A. (736) 35)

Magnetic field
Hippocampal slice; Neurotransmission (Trabulsi, R. (728) 135)

Magnetic resonance imaging
Neurotoxic lesion; Ibotenic acid; Piriform cortex; Edema (Ben-Horin, N. (718) 97)

Corpus callosum; Sexual dimorphism; Methodology (Constant, D. (727) 99)

Human thalamus; Evoked response; Median nerve stimulation; Functional imaging; Neuromagnetism (Tesche, C.D. (729) 253)

Magnetoencephalography
Somatosensory cortex; Human; Movement-related magnetic field; Anesthesia; Movement-evoked field I; Motor field (Kristeva-Feige, R. (714) 201)

Somatosensory evoked field; Mesial cortex; Human (Forss, N. (734) 229)

Movement; Human; Spectral power; Spontaneous activity; Motor cortex; Somatosensory cortex; Cortical rhythm; Event-related spectral change; Movement-related magnetic field (Feige, B. (734) 252)

Somatosensory; Evoked field; Cortex; Area 3b; Human (Vanni, S. (737) 25)

Magnocellular
Lateral geniculate nucleus; Parvocellular; Visual cortex; Parallel processing; Immunohistochemistry (Chaudhuri, A. (709) 17)

Magnocellular hypothalamic nuclei
AT-1 receptor antagonist; Lamina terminalis; EXP 3174; Isoproterenol; Polyethylene glycol; Hypovolemia (Rowland, N.E. (742) 253)

Magnocellular neuroendocrine neuron
Amino acid transporter; Immunohistochemistry; Hypothalamus; Rat (Hisano, S. (710) 299)

Major pelvic ganglion
Vasoactive intestinal polypeptide; Choline acetyltransferase; Tyrosine hydroxylase (Dun, N.J. (738) 292)

Malate dehydrogenase
Pineal; Cyclic AMP; Phosphorylation; Aspartate/malate shuttle (Weller, J.L. (713) 8)

Male rat
Female rat; Medial preoptic area; Bed nucleus of the stria terminalis; Medial amygdala; Midbrain; Steroids; Copulation (Coolen, L.M. (738) 67)

Malonaldehyde
In vivo; Rat brain; Oxidative stress; Ascorbic acid; Uric acid; Lipid peroxidation; Antioxidant (Waterfall, A.H. (712) 102)

Malonate
Methamphetamine; MPTP; Mice; Striatum; Dopamine; Metabolic inhibition; Energy metabolism (Albers, D.S. (718) 217)

Maltose dextrin
Water deprivation; μ-Receptor; κ-Receptor; δ-Receptor; Sham feeding; Sham drinking; Palatability; Post-ingestive mechanisms (Leventhal, L. (741) 300)

Mamillary body
Fos-like immunoreactivity; Ventral tegmental nucleus; γ-Aminobutyric acid (Shim, I. (712) 173)

Manganese
Aluminum; Transferrin; Oligodendrocyte; Transferrin receptor; Iron (Golub, M.S. (719) 72)

Mannitol
Dorsal motor nucleus of vagus; Gastric vagus; Osmoreceptor; Hepatic; Portal vein; Water; Hypotonic; Na^+ concentration; Rat (Kobashi, M. (706) 21)

Manual acupuncture
Capsaicin; DNIC; Polymodal receptor; Rat; C fiber; Jaw opening reflex; Digastric EMG (Okada, K. (740) 201)

MAO-A metabolite
3,4-Dihydroxyphenylglycolaldehyde; Neurotoxin; Catecholamine; PC-12 cell (Burke, W.J. (722) 232)

Mapping
Chromosome; Open field; Serotonin (5-HT); $5\text{-}HT_{1A}$; $5\text{-}HT_{1B}$; $5\text{-}HT_{2A}$; $5\text{-}HT_{2C}$ (Clément, Y. (709) 229)

Marking
Androgen; Brain; Preference; Sexual behavior; Ultrasonic vocalizations; Urine; Mouse (Sipos, M.L. (729) 29)

Marmoset
Autoradiography; Basal ganglia; Dopamine D_3 receptor; Dyskinesia; L-DOPA; MPTP; Psychosis (Hurley, M.J. (709) 259)

Masseteric nerve
Neuropeptide Y; Mesencephalic trigeminal nucleus; Nerve injury; Calcium-binding protein (parvalbumin, calbindin D28k) (Wakisaka, S. (735) 249)

Masseter motoneuron
Active sleep; Microiontophoresis; α-Chloralose; Cat (Kohlmeier, K.A. (722) 30)

Masticatory EMG
Chewing rhythm; Food texture; Central pattern generator; Jaw movement; Head posture; Freely moving rabbit (Yamada, Y. (706) 237)

Masticatory system
Periodontal ligament; Mechanoreceptor; Reflex; Jaw muscle; Teeth (Louca, C. (731) 63)

Maternal behavior
Rabbit; Vasopressin; Oxytocin; Immunochemistry; Hypothalamus; Pregnancy; Parturition; Estrus (Caba, M. (720) 7)

Opioid; Mesolimbic; Ventral tegmental area; Naltrexone methobromide; Morphine; Rat (Thompson, A.C. (743) 184)

Maternal deprivation
Rat; Development; Suckling; Hippocampus; Glucocorticoid receptor; Mineralocorticoid receptor; Gene expression (Vázquez, D.M. (731) 79)

Maternal exposure
Cocaine; Novelty-exploration test; Open field; Rat (Giustino, A. (728) 149)

Matrix
Calbindin immunohistochemistry; Freely moving rat; Single-unit recording; Striatum; Striosome (Trytek, E.S. (707) 221)

Mature hippocampal neuron
Excitotoxicity; Basic fibroblast growth factor; Arachidonic acid; Neuroprotection (Himmelseher, S. (707) 54)

Mazindol binding
Rotational behavior; Striatum; Substantia nigra; High-affinity dopamine uptake; Parkinson's disease (Jones, B.E. (709) 275)

MBP
Myelin associated glycoprotein; Myelin basic protein; Neuron–glia cell adhesion molecule; Development; Lateral superior olive; Auditory; MAG; L1 (Hafidi, A. (736) 35)

MCA
Focal cerebral ischemia; Middle cerebral artery occlusion; MCA-O; Rat; Strain difference; Behavior; Behavioral examination (Van der Staay, F.J. (735) 271)

MCA-O
Permanent focal cerebral ischemia; Middle cerebral artery occlusion; Wistar Kyoto rat; Brain; Behavior; Neurological examination (Van der Staay, F.J. (715) 180)

Focal cerebral ischemia; Middle cerebral artery occlusion; MCA; Rat; Strain difference; Behavior; Behavioral examination (Van der Staay, F.J. (735) 271)

μ-/δ-/κ- vs. ϵ-opioid receptors
Action potential shortening vs. prolongation; β-Funaltrexamine; Naltrindole; Nor-binaltorphimine; Dorsal root ganglion neuron (Crain, S.M. (741) 275)

Mecamylaine
Memory; Radial-arm maze; Hippocampus; Nucleus accumbens; Nicotinic; Muscarinic; Scopolamine (Kim, J.S. (725) 231)

Mecamylamine
Acetylcholine; Atropine; Carbachol; Circadian rhythm; Entrainment; Suprachiasmatic; Phase–response curve (Bina, K.G. (743) 202)

Mechanical allodynia
Mechanical hyperalgesia; CP-99,994-1; NK1 antagonist; Tachykinin (Carlton, S.M. (734) 103)

Mechanical hyperalgesia
Mechanical allodynia; CP-99,994-1; NK1 antagonist; Tachykinin (Carlton, S.M. (734) 103)

Mechanical stimulation
Analgesia; Allodynia; Capsaicin; C-fiber; Cold; Hyperalgesia; Neuropathic pain; Spinal cord injury (Hao, J.-X. (722) 177)

Mechanical test
Pain-related behavior; Sex; Estrus; Rat (Kayser, V. (742) 352)

Mechanoreceptor
Nerve injury; Inferior alveolar nerve; Neuropeptide Y; Ruffini ending; Periodontal ligament; Rat (Wakisaka, S. (712) 11)

Nerve injury; Periodontal ligament; Neuropeptide Y; Regeneration; Ruffini ending; Inferior alveolar nerve; Immunoelectron microscopy (Wakisaka, S. (729) 259)

Periodontal ligament; Reflex; Jaw muscle; Masticatory system; Teeth (Louca, C. (731) 63)

Ensemble coding; Stimulus discrimination; Simultaneous recording; Afferent, single; Afferent, sensory; Afferent, muscle (Bergenheim, M. (734) 157)

Medial agranular cortex
Globus pallidus; Glutamate; Striatum; Fos; Recovery; Frontal cortex; Dopamine; Neglect; Amphetamine; Immediate early gene (Vargo, J.M. (716) 207)

Medial amygdala
Predatory attack behavior; Stria terminalis; Substance P; Substance P (NK_1) receptor antagonist CP96,345; Cat; Hypothalamus (Han, Y. (716) 59)

Predatory attack behavior; Hypothalamus; GABA; $GABA_A$ receptor; Muscimol; Bicuculline; Cat (Han, Y. (716) 72)

Male rat; Female rat; Medial preoptic area; Bed nucleus of the stria terminalis; Midbrain; Steroids; Copulation (Coolen, L.M. (738) 67)

Medial forebrain bundle
Dopamine; Refractory period; Reward; Single unit; Ventral striatum (Anderson, R.M. (718) 83)

Brain stimulation reward; Basal forebrain; Immediate early genes; Lateral preoptic area; Substantia innominata (Arvanitogiannis, A. (720) 148)

Non-NMDA receptor; Striatum; 6-Hydroxydopamine; GBR 12935; Dopamine uptake complex (Zavitsanou, K. (731) 132)

Medial frontal cortex
Heart rate; Autonomic nervous system; Stress; Agranular insular cortex; Noradrenaline; Dopamine; β-Adrenoceptor (Funk, D. (741) 220)

Medial gastrocnemius
Human gait; Sural nerve; Reflex gain; Exteroceptive reflex; Lateral gastrocnemius; Biceps femoris (Duysens, J. (727) 230)

Medial geniculate
Spinal trigeminal nucleus; Caudalis; Interpolaris; c-Fos; Heart rate conditioning; Unconditioned stimulus; Cornea (McEchron, M.D. (710) 112)

Medial hypothalamus
Defensive rage behavior; Midbrain periaqueductal gray; Excitatory amino acid; Receptor binding; Immunocytochemical labeling; NMDA receptor (Schubert, K. (726) 80)

Medial medullary reticular neuron
Otolith; Off-vertical axis rotation; Bidirectional response sensitivity; Spatial property; Response dynamic; Cat (Chan, Y.S. (732) 159)

Medial prefrontal cortex
Cerebral laterality; Antidepressant drug; Biogenic amine; Nucleus accumbens; Striatum (Carlson, J.N. (707) 122)

Stress; Dopamine; Laterality; 6-Hydroxydopamine; Nucleus accumbens; Striatum (Carlson, J.N. (711) 1)

Anxiety; Fos; Stress; Anxiety; Animal model; Lateral septum; Amygdala; Hypothalamus; Limbic cortex (Duncan, G.E. (713) 79)

Cortical module; Pyramidal neuron; Apical dendritic bundle/cluster; Limbic/autonomic cortex (Gabbott, P.L.A. (730) 75)

5-HT_3-like receptor; Phosphoinositide hydrolysis; 5-HT_3 receptor agonist; PBG chlorinated derivative; SR 57227A (Edwards, E. (733) 21)

Medial preoptic area
Male rat; Female rat; Bed nucleus of the stria terminalis; Medial amygdala; Midbrain; Steroids; Copulation (Coolen, L.M. (738) 67)

Opioid receptor; Diabetes; Habenula (Wolinsky, T.D. (738) 167)

Oxytocin; Paraventricular nucleus; Sexual dimorphism; Substantia nigra (Dubois-Dauphin, M. (743) 32)

Medial preoptic nucleus
γ-Aminobutyric acid turnover; Gonadal steroid; Gonadotropin-releasing hormone; Hypothalamus; Rat (Grattan, D.R. (733) 46)

Sexually dimorphic nucleus of the preoptic area; Apoptosis; Testosterone; Sexual differentiation; Rat (Davis, E.C. (734) 10)

Periaqueductal gray; Blood pressure; Pain; Hypothalamus (Behbehani, M.M. (740) 141)

Medial preoptic nucleus blockade
Scrotal thermal stimulation; Ventromedial hypothalamic neuron; Lidocaine (Li, Q. (716) 134)

Medial septal area
Reversible inactivation; Tetrodotoxin; Lidocaine; Reference memory; Working memory (Rashidy-Pour, A. (709) 131)

Long-term potentiation; Recurrent inhibition; Hippocampus; Tetrodotoxin; Reversible inactivation (Rashidy-Pour, A. (734) 43)

Medial septal nucleus
Acetylcholine; Hippocampus; Naloxone; Behavioral seizure; Rat; Microdialysis (Mizuno, T. (713) 1)

Medial septum
Muscarinic receptor; Hippocampus; Sympathetic ingrowth; Lesion; Protein kinase C; PKC activity; Plasticity (Ayyagari, P.V. (708) 205)

Anxiety; Benzodiazepine; Lateral septum; Midazolam; Ro 15-1788 (Pesold, C. (710) 161)

Alzene; Working and reference spatial memory; Passive avoidance; Essential fatty acid; Linolenic/linoleic acid (Riekkinen Jr., P. (714) 118)

Vertical limb of the diagonal band of Broca; Hippocampus; Theta rhythm; Burst activity; Alcohol-preferring rat; Alcohol-nonpreferring rat (Breen, T.E. (714) 156)

β(25–35); Locus coeruleus; Tyrosine hydroxylase; Glutamate; Choline acetyltransferase (Chen, S.-Y. (715) 44)

Benzodiazepine; Chlordiazepoxide; Flumazenil; Hippocampus; Dentate gyrus; Field potential; Synaptic plasticity; Long-term potentiation (Stackman, R.W. (717) 12)

192-IgG-saporin; Aged rat; Spatial memory; Acoustic startle; Morris water maze (Bannon, A.W. (718) 25)

192-Saporin; Immunotoxin; Spatial memory; Alzheimer's disease; Animal model; Cholinergic basal forebrain (Walsh, T.J. (726) 69)

Medial septum / diagonal band complex
Conditioned taste aversion; Latent inhibition; 192-Saporin; Attention (Dougherty, K.D. (736) 260)

Medial vestibular nucleus
Adaptation; Cross axis; Motor learning; Plasticity; Single unit; Superior vestibular nucleus; Vestibulo-ocular reflex (Quinn, K.J. (718) 176)

Median eminence
Photoperiod; Tyrosine hydroxylase; L-amino acid decarboxylase; Immunocytochemistry; Arcuate nucleus; Hamster (Krajnak, K. (712) 95)

G-protein; Dopamine; DOPAC; DOPA; Opioid (Lin, J.-Y. (727) 182)

Median nerve stimulation
Human thalamus; Evoked response; Functional imaging; Magnetic resonance imaging; Neuromagnetism (Tesche, C.D. (729) 253)

Median preoptic nuceus
Subfornical organ; Organum vasculosum laminae of the terminalis; Cardiovascular regulation; Body fluid homeostasis (Ciriello, J. (708) 167)

Median raphe nucleus
Hippocampus; Theta rhythm; Septum; 8-Hydroxy-2-(di-*n*-propylamino)tetralin (8-OH-DPAT); Serotonin (Kinney, G.G. (708) 116)

Medical preoptic area
Melatonin; Hypothalamus; Estrogen receptor; Hamster (Hill, S.M. (742) 107)

Mediobasal hypothalamus
Neurotensin; Tyrosine hydroxylase; Double pre-embedding immunocytochemistry; Electron microscopy; Guinea pig (Marcos, P. (715) 63)

Medulla
Somatostatin binding site; Receptor mapping; Pons; Human; Quantitative autoradiography (Carpentier, V. (734) 135)

Heart; Nucleus ambiguus; Vagus; Parasympathetic (Panneton, W.M. (738) 342)

Medulla oblongata
Reticular formation; Subnucleus reticularis dorsalis; Subnucleus reticularis ventralis; Nociception; Cat (Fujino, Y. (715) 225)

Tooth pulp; Nociceptive neuron; Subnucleus caudalis; Reticular formation; Cat (Yokota, T. (715) 230)

Medullary dorsal horn
Pain; Trigeminal nucleus caudalis; Opioid receptors; Antinociception; Nociception (Wang, X.-M. (739) 235)

Melanocortin
Corticospinal tract; Cortex; Cell culture; Neuron polarity; Axon; Dendrite; Trophic factor (Joosten, E.A.J. (736) 91)

α-Melanocyte-stimulating hormone
Interleukin-1β; Hyperalgesia; Diclofenac; Prostaglandin; Cytokine; Central nervous system (Oka, T. (736) 237)

Melanotransferrin
Blood brain barrier; Transferrin receptor; Capillary endothelium; Human brain (Rothenberger, S. (712) 117)

Alzheimer's disease; Amyloid plaque; Transferrin receptor; β-Amyloid protein (Jefferies, W.A. (712) 122)

Melatonin
Circadian regulation; Oscillator; Pineal; Retina; Photoreception; *Danio (Brachydanio) rerio*; Organ culture (Cahill, G.M. (708) 177)

Chronobiology; Circadian rhythm; Light; Suprachiasmatic nucleus; Pineal gland (Hätönen, T. (710) 125)

Retina; Cyclic GMP; Golden hamster; Phosphodiesterase; Guanylate cyclase (Faillace, M.P. (711) 112)

Calcium ion; Cyclic adenosine monophosphate; Circadian rhythm; Diurnal rhythm; Chick pineal (Nikaido, S.S. (716) 1)

Alzheimer's disease; Circadian rhythm; Suprachiasmatic nucleus; Sleep–wake cycle; Delirium; Pineal gland; Light–dark cycle (Uchida, K. (717) 154)

Circadian rhythm; Suprachiasmatic nucleus; Photoperiod; c-*fos*; Pineal; Rat (Sumová, A. (725) 281)

Hydroxyindole-*O*-methyltransferase; Y-79 retinoblastoma; Serum; S-antigen (Bernard, M. (727) 118)

Anterior hypothalamus; Microdialysis; Radioimmunoassay; Siberian hamster; Pharmacokinetic (Ferreira, S.A. (733) 318)

Serotonin; Quipazine; 8-OH-DPAT; Buspirone; Circadian rhythms (Kennaway, D.J. (737) 301)

Forskolin; Circadian rhythm (Green, C.B. (738) 1)

Hypothalamus; Estrogen receptor; Medical preoptic area; Hamster (Hill, S.M. (742) 107)

Melatonin synthesis
Pineal; Retina; Adrenergic; Circadian rhythm; mRNA regulation (Gauer, F. (737) 99)

Memantine
N-Methyl-D-aspartate receptor; Amantadine; Heat shock protein; AIDS dementia complex (Tomitaka, S. (740) 1)

Membrane
Cortiotropin releasing factor; Binding protein; Stress; Purification; Sheep (Behan, D.P. (709) 265)

Axon; GPI-anchored protein; TAG-1 (Harel, R. (712) 345)

Axonal injury; Axotomy; Traumatic brain injury; Cytoskeleton; Neurofilament; Microtubule; Mitochondrion (Pettus, E.H. (722) 1)

Nucleus basalis magnocellularis; Acetylcholine; Rat; Lesion; Ablation; Palmitate; Neuroplasticity; Remodeling; Alzheimer disease; Phospholipid; Phosphatidylcholine (De Micheli, E. (735) 36)

Membrane binding
Ontogeny; Development; NMDA receptor; Agonist; Antagonist; Heterogeneity (Enomoto, R. (723) 100)

Membrane cytoskeleton
Brain spectrin; Fodrin; Alzheimer's disease; Neuritic plaque; Amyloid plaque; Neurodegeneration (Sihag, R.K. (743) 249)

Membrane mechanism
Nociception; Pain sensitivity; Tailflick latency; Steroid hormone; Progestin; Non-genomic; γ-Aminobutyric acid; Lordosis (Frye, C.A. (709) 1)

Membrane potential
HEPES; Potassium current; Calcium current (Cowan, A.I. (717) 69)

Insect; Locust; Flight; Motor pattern; Temperature; PSP amplitude (Xu, H. (734) 213)

Membrane-potential change
Subiculum; Seizure-like events; Late recurrent discharge; Low magnesium; Field potential; 5-HT (Behr, J. (737) 331)

Memory
Alzheimer's disease; Acetylcholine; Arecoline; Atropine; Consolidation; Development; Passive-avoidance response; Pilocarpine; Scopolamine (Smith, R.D. (707) 13)

Ischemia; Carotid ligation; CA1; Alzheimer's disease (Pappas, B.A. (708) 50)

Cocaine; Amygdala; Lesion; One-trial inhibitory avoidance (Cestari, V. (713) 286)

Hippocampus; CA1; CA3; Kainic acid; Water maze; Passive avoidance; Spatial learning (Stubley-Weatherly, L.A. (716) 29)

Cerebral ischemia; Neuronal death; Hippocampus; Learning; LY231617; Angiotensin IV; Circular water maze; Passive avoidance conditioning; Rat (Wright, J.W. (717) 1)

Cholinergic mechanism; Reinforced response; Learning; Microdialysis (Orsetti, M. (724) 89)

Radial-arm maze; Hippocampus; Nucleus accumbens; Nicotinic; Muscarinic; Scopolamine; Mecamylaine (Kim, J.S. (725) 231)

Calcineurin; Cyclosporin A; Dephosphorylation; Immunosuppressant; Phosphatase (Bennett, P.C. (730) 107)

Acetylcholine; Dehydroepiandrosterone sulfate; Dehydroepiandrosterone; Hippocampus; Microdialysis; Neurosteroid (Rhodes, M.E. (733) 284)

Long-term potentiation; Perirhinal cortex; NMDA; Associative (Bilkey, D.K. (733) 297)

Hippocampus; Long-term potentiation; Postsynaptic; Glutamate receptor binding; Environmental enrichment (Foster, T.C. (736) 243)

D-Cycloserine; Glycine site; Morris water maze; *N*-methyl-D-aspartate; Rat; Treatment (Temple, M.D. (741) 246)

Prenatal alcohol exposure; Sleep; Glucose; Spontaneous alternation; Radial arm maze; Inhibitory avoidance (Stone, W.S. (742) 98)

Prefrontal cortex; 2-Fluorodeoxyglucose; Brain development; Associative learning; Conspecific vocalization (Poeggel, G. (743) 162)

Memory modulation
Stria terminalis; Amygdala; Dexamethasone; Adrenalectomy; Inhibitory avoidance; Water maze (Roozendaal, B. (709) 243)

Meningitis
Aminoguanidine; Blood-brain barrier; Blood-cerebrospinal fluid barrier; Nitric oxide; Nitric oxide synthase; Neuroinflammation; Neurodegeneration (Boje, K.M.K. (720) 75)

MEPPs
Transmitter release; Neuromuscular junction; Dynamics (Kriebel, M.E. (729) 228)

Mercury
Ca^{2+} current; Ca^{2+} influx; Ca^{2+} release; Microsome; Ca^{2+} ATPase; Methylmercury; Glutathione (Freitas, A.J. (738) 257)

Mercury chloride
Aggregating brain cell culture; Developmental neurotoxicity; Monomethylmercury chloride; Microglia; Glial fibrillary acidic protein; Cell type-specific enzyme (Monnet-Tschudi, F. (741) 52)

Mercury poisoning
Nitric oxide; Purkinje cell; Cerebellum (Himi, T. (718) 189)

Mesencephalic cells
L-Deprenyl; PC12; 1-Methyl-4-phenyl pyridinium ion (MPP^+) (Vaglini, F. (741) 68)

Mesencephalic culture
Tyrosine hydroxylase; Aromatic L-amino acid decarboxylase; GM1 ganglioside; Recovery; 1-Methyl-4-phenylpyridinium (MPP^+) (Dalia, A. (742) 260)

Mesencephalic trigeminal nucleus
Neuropeptide Y; Masseteric nerve; Nerve injury; Calcium-binding protein (parvalbumin, calbindin D28k) (Wakisaka, S. (735) 249)

Mesencephalon
Dopamine neuron; Basic fibroblast growth factor; Neurotrophic factor; Glia; Cell culture (Hou, J.-G.G. (724) 145)

Mesial cortex
Magnetoencephalography; Somatosensory evoked field; Human (Forss, N. (734) 229)

Mesocortical
Immediate-early gene; Immunohistochemistry; Ventral striatum; Mesoprefrontal; Reinnervation (Chapman, M.A. (736) 270)

Mesocorticolimbic dopamine
Voltammetry; Infralimbic cortex; SCH 23390; SKF 38393; Sulpiride; Quinpirole; GBR 12909 (Doherty, M.D. (715) 86)

Mesolimbic
Behavioral sensitization; Dopamine; Fos immunohistochemistry; Nicotine; Ventral tegmental area (Panagis, G. (730) 133)

Cocaine; Dopamine; Prenatal; Nucleus accumbens; Frontal cortex; Microdialysis (Keller Jr., R.W. (742) 71)

Maternal behavior; Opioid; Ventral tegmental area; Naltrexone methobromide; Morphine; Rat (Thompson, A.C. (743) 184)

Mesoprefrontal
Immediate-early gene; Immunohistochemistry; Ventral striatum; Mesocortical; Reinnervation (Chapman, M.A. (736) 270)

Messenger plasticity
Axotomy; Chronic constriction injury rat; Vanilloid receptor; Resiniferatoxin (Farkas-Szallasi, T. (719) 213)

Messenger RNA
Electroshock; Gene expression; Hybridization, in situ; Glutamate; Seizure (Porter, R.H.P. (710) 97)

Messenger RNA expression
Prostanoid receptor; Astrocyte; Oligodendrocyte; Microglia; Reverse transcriptase-polymerase chain reaction; Cell differentiation (Kitanaka, J. (707) 282)

Metabolic heat production
Tonic inhibition; Temperature increase; Interscapular brown adipose tissue; Procaine; Propranolol; Indomethacin (Shibata, M. (716) 171)

Metabolic hypothesis
Cytochrome oxidase; Hypercapnia; Hypoxia; Photo-dissociation (Osanai, S. (711) 56)

Metabolic inhibition
Methamphetamine; MPTP; Malonate; Mice; Striatum; Dopamine; Energy metabolism (Albers, D.S. (718) 217)

Metabolic rate
Morphine; Glucose utilization; 2-Deoxyglucose; Locus coeruleus; Amygdala (Kraus, M.A. (724) 33)

Metabolic rate constant
Hexokinase; Cholinergic system; Ibotenic acid; Positron emission tomography (Ouchi, Y. (706) 267)

Metabolic regulation
Parallel fiber; Cerebral blood flow; Glutamate; Nitric oxide; Laser-Doppler flowmetry; Synaptic activity (Akgören, N. (710) 204)

Metabolism
Acidosis; Neuron death; Cortex; Hippocampus; Hypoxia ischemia; NMDA receptor; Microphysiometry (Trafton, J. (731) 122)

Neuropeptide Y; Paraventricular nucleus; Perifornical hypothalamus; Respiratory quotient; Indirect calorimetry; Food intake (Currie, P.J. (737) 238)

Brain; Cytochrome P450; CYP2D; Antidepressant; Inhibitor (Sequeira, D.J. (738) 24)

Bovine capillary endothelial cell; 4-Hydroxynonenal; Reoxygenation; Blood–brain barrier (Kunstmann, S. (740) 353)

Metabotropic glutamate
Excitatory amino acid; Glutamate; Fos; Jun (Kaatz, K.W. (709) 205)

Metabotropic glutamate receptor
Apomorphine; Excitotoxicity; Kainate; Neostriatum; *N*-Methyl-D-aspartate; Quinolinic acid (Colwell, C.S. (726) 223)

Methamphetamine sensitization; Expression; Dopamine release; Striatum; Microdialysis (Arai, I. (729) 277)

mGluR3; mGluR5; Retina; Astrocyte (Jeffery, G. (741) 75)

Metabotropic glutamate response
Hippocampus; CA3 pyramidal neuron; Rat (Harata, N. (711) 223)

Metabotropic receptor
Excitatory amino acid; High affinity glutamate uptake; Glutamate release; Microdialysis, in vivo; Striatum (Samuel, D. (739) 156)

Metal ion
Cortical neuron; Kainate; Copper; Patch clamp; (*S*)-α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA); *N*-methyl-D-aspartate (NMDA) (Weiser, T. (742) 211)

Metallothionein
Growth inhibitory factor; Glial fibrillary acidic protein; Ischemia; Reactive astrocyte; Regeneration (Inuzuka, T. (709) 151)

Bismuth; Rat; Astrocyte; In vitro (Cowan, K. (732) 106)

Growth inhibitory factor; Rat; Brain; Immunohistochemistry; Ultrastructure (Yamada, M. (735) 257)

Methylmercury; Astrocyte; Regulatory volume decrease; Taurine; Hypotonicity (Vitarella, D. (738) 213)

Met-enkephalin
Preproenkephalin; mRNA; Opioid; Nitrous oxide; Hypothalamus (Agarwal, R.K. (730) 47)

Tachykinin; Analgesia; Pain; Antinociception; Naltrindole (Zachariou, V. (736) 305)

Met-enkephalin response
Ganglion cell; Opiate receptor-mediated response; Synaptic activity, prolonged; Stimulus train (Zhang, C. (710) 1)

Methamphetamine
Noradrenaline; Neuropeptide Y; Paraventricular nucleus (Yoshihara, T. (707) 119)

Transgenic mouse; Superoxide dismutase; Superoxide radical; Dopamine uptake site; Striatum; Gender (Hirata, H. (714) 95)

MPTP; Malonate; Mice; Striatum; Dopamine; Metabolic inhibition; Energy metabolism (Albers, D.S. (718) 217)

Histamine; Histidine decarboxylase; Cortex; Striatum; Diencephalon; Rat (Ito, C. (734) 98)

Poly(ADP-ribose) polymerase; Benzamide; Neurotoxicity; Neuroprotection; Striatal dopamine; C57Bl/6N mouse (Cosi, C. (735) 343)

Dopamine; DSP-4; Neurotoxic threshold; Nigrostriatal pathway; Norepinephrine (Fornai, F. (735) 349)

Dopaminergic neurotoxicity; Nigral cell loss; Substantia nigra neuropathology; Mice; Animal model of Parkinson's disease; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine) (Sonsalla, P.K. (738) 172)

Dopamine; Glutamate; AMPA; Schizophrenia; Stereotypy (Larson, J. (738) 353)

Circadian rhythm; Suprachiasmatic nucleus; NAN-190; 5-HT_{1A} receptor; Serotonin (Moriya, T. (740) 261)

Pramipexole; Nigrostriatal; Degeneration; Neuroprotection; Ischemia (Hall, E.D. (742) 80)

Methamphetamine sensitization
Expression; Dopamine release; Striatum; Metabotropic glutamate receptor; Microdialysis (Arai, I. (729) 277)

Methandrostenolone
Anabolic steroid; Radial-arm maze; Delayed non-match-to-sample; 17α-Methyltestosterone; Testosterone cypionate (Smith, S.T. (737) 313)

Methodology
Corpus callosum; Sexual dimorphism; Magnetic resonance imaging (Constant, D. (727) 99)

Methohexital
Hypoxia; Barbiturate; Thiopental; Blood-brain barrier; Brain microvascular endothelial cell; Permeability (Fischer, S. (707) 47)

18-Methoxycoronaridine
Ibogaine; *Iboga* alkaloid; Morphine; Cocaine; Drug self-administration (Glick, S.D. (719) 29)

3-Methoxy-4-hydroxyphenylethylene glycol
3,4-Dihydroxyphenylacetic acid; Pentazocine (Eaton, M.J. (733) 162)

Methylamphetamine
NA-LC system; Sleep deprivation; Sleep recovery; Water tank; DSP-4 (Del C. González, M.M. (740) 215)

***N*-Methyl-D-asparate receptor**
Parkinson's disease; Human; Motor loop; Basal ganglia; Dopamine; γ-Aminobutyric acid; Glutamate; Parkinsonian symptom (Gerlach, M. (741) 142)

***N*-Methyl-D-aspartate**
Neurotoxicity; HIV-1; Transgenic; Glutamate; Treatment (Toggas, S.M. (706) 303)

Excitatory amino acid; Puberty; GnRH (Carbone, S. (707) 139)

NBQX; Synaptic response; Retinal ganglion; KA/AMPA receptor (Yu, W. (709) 184)

ADP-ribosylation; Mono-ADP-ribosylation; Poly-ADP-ribosylation; Nitric oxide; Traumatic brain injury; CA1; Hippocampus (Wallis, R.A. (710) 169)

Culture; Glutamate; Neurotoxicity; Nitric oxide (NO); Retina (Kashii, S. (711) 93)

AMPA; AP-7; NBQX; Microinjection; Phrenic nerve (Chitravanshi, V.C. (715) 104)

Differentiation; Synaptogenesis; Neural crest; Tyrosine hydroxylase; Glutamate; Receptor; Gut (Burns, G.A. (718) 117)

Nitric oxide; cGMP; Protein kinase C; Glutamate; Cerebellar granule cell (Riccio, A. (718) 159)

Olfactory system; Immediate-early gene; Mitral cell; c-*fos*; Rat (Wilson, D.A. (719) 62)

Excitotoxicity; Hippocampus; Infrared videomicroscopy; Kainate; Neostriatum; Suprachiasmatic nucleus (Colwell, C.S. (724) 205)

Quinolinic acid; Excitotoxicity; Apoptosis; DNA fragmentation; Neurodegeneration; Huntington's disease (Qin, Z.-H. (725) 166)

Apomorphine; Excitotoxicity; Kainate; Neostriatum; Metabotropic glutamate receptor; Quinolinic acid (Colwell, C.S. (726) 223)

Amyotrophic lateral sclerosis; Glutamate receptor; mRNA (Samarasinghe, S. (727) 233)

3-(2-Carboxypiperazine-4-yl)propyl-1-phosphonic acid; Kindling; Caudate-putamen; Amygdala; Substantia nigra; Thalamus; Cerebral cortex (Osonoe, M. (728) 242)

CGS-19755; Cerebral blood flow; Cerebral O_2 consumption; Rat (Weiss, H.R. (730) 193)

Dentate gyrus; In vivo; Paired-pulse depression; Kindling; MK-801; γ-Aminobutyric acid (Gilbert, M.E. (732) 201)

Cholecystokinin; Dopamine; Microdialysis; Frontal cortex; Scopolamine; Release (Liu, J.K. (735) 30)

Inflammation; Visceral; Nociception; Colon; Colorectal distension; Zymosan; Excitatory amino acid (Coutinho, S.V. (736) 7)

Oxygen tension; Brain temperature; Blood flow; Caudate putamen; Ventral hippocampus (Hara, S. (737) 339)

Ethanol; Single-channel recording; Kinetic analysis; Whole-cell recording; Mouse, inbred strain C57BL/6 (Wright, J.M. (738) 249)

Substance P; Glutamate; Tachykinin; Slow excitatory transmission; Dorsal root stimulation; Nociception; Wind-up (Baranauskas, G. (738) 329)

Excitatory amino acid; Aging; Gonadotropin releasing hormone; Gonadotropin (Arias, P. (740) 234)

Nitric oxide; Sodium nitroprusside; Estrogen; Progesterone; Norepinephrine; Hypothalamus; Preoptic area (Chu, H.-P. (741) 60)

3-Aminopropylarsonate; 2-Amino-4-arsonobutyrate; Epileptogenesis; Electrical kindling; Seizure; γ-Aminobutyric acid; Kainate; Amygdala (Abdul-Ghani, A.-S. (742) 305)

N-Methyl-D-aspartate antagonist
Dizocilipine maleate; MK-801; Cingulate cortex; Neurotoxicity; Neuropathology; Spatial learning and memory; Sensorimotor; Activity; Mouse (Wozniak, D.F. (707) 165)

N-Methyl-D-aspartate (NMDA)
Glutamate; In situ hybridization; Dizocilpine; Striatum; Midbrain; Cortex (Healy, D.J. (708) 38)

N-Methyl-D-aspartate (NMDA) receptor
Long-term potentiation; Depotentiation; FK506; Calcineurin; Cyclosporin A; Synaptic plasticity; Hippocampus (Lu, Y.-F. (729) 142)

Amphetamine sensitization; Dopamine receptor; Caldesmon; Calmodulin-binding protein; Glutamate (Gnegy, M.E. (734) 35)

N-Methyl-D-aspartate receptor
Autoradiography; Glutamate; Glycine; Spermidine; [^{3}H]MK-801 (McCoy, L. (710) 103)

Pilocarpine; Status epilepticus; Seizure; Cell death; Time course; Glutamate (Fujikawa, D.G. (725) 11)

Memantine; Amantadine; Heat shock protein; AIDS dementia complex (Tomitaka, S. (740) 1)

Glutamate; Glycine; Single channel; Competitive antagonism; Coagonist hypothesis; Excitatory amino acid; 5,7-Dichlorokynurenate (Currás, M.C. (740) 27)

Preprotachykinin; Preproenkephalin; Zif/268; *p*CPA; Basal ganglia (Cummings, T.J. (743) 240)

N-Methyl-D-aspartate receptor complex
State-dependent learning; Ethanol; 5-Hydroxytryptamine$_3$ receptor; Rat (Nakagawa, Y. (706) 227)

α-Methyl DOPA
Diabetes; Rat; Brain; Epinephrine; α-Methyl norepinephrine; Catecholamine (Gbadebo, T.D. (739) 210)

Methylisobutyl amiloride
Amiloride; Na^+/H^+ antiporter; Intracellular acid-base balance; 5-N substituted amiloride analog (Lin, C.-W. (731) 108)

Methylmalonic acid
Organic acidemia; Neurotoxicity; Open field; Convulsion; Seizure; Striatum; Excitotoxicity; Rotational behavior (De Mello, C.F. (721) 120)

Methylmercury
Astrocyte; Volume regulation; Sodium; Potassium; Taurine (Vitarella, D. (732) 169)

Astrocyte; Metallothionein; Regulatory volume decrease; Taurine; Hypotonicity (Vitarella, D. (738) 213)

Ca^{2+} current; Ca^{2+} influx; Ca^{2+} release; Mercury; Microsome; Ca^{2+} ATPase; Glutathione (Freitas, A.J. (738) 257)

α-Methyl norepinephrine
Diabetes; Rat; Brain; Epinephrine; α-Methyl DOPA; Catecholamine (Gbadebo, T.D. (739) 210)

Methylphenidate
Ritalin; Dose response; Psychomotor stimulant; Motor activity; Behavior (Gaytan, O. (727) 13)

N-Methyl-4-phenylpyridine
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Common marmoset; Nimodipine; Calcium; Neurotoxicity; Striatum; Substantia nigra (Kupsch, A. (741) 185)

1-Methyl-4-phenylpyridine (MPP^+)
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Neurotoxicity; NADH-ubiquinone oxidoreductase; Succinate-ubiquinone oxidoreductase; Ubiquinol-cytochrome *c* reductase; Cytochrome *c* oxidase (Desai, V.G. (715) 1)

1-Methyl-4-phenylpyridinium
Neurotrophin; Nerve growth factor; Mitochondrion; Parkinson's disease (Kirschner, P.B. (713) 178)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)
1-Methyl-4-phenylpyridine (MPP^+); Neurotoxicity; NADH-ubiquinone oxidoreductase; Succinate-ubiquinone oxidoreductase; Ubiquinol-cytochrome *c* reductase; Cytochrome *c* oxidase (Desai, V.G. (715) 1)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine
Poly(ADP-ribose) polymerase; Benzamide; C57Bl/6 mouse; Striatal dopamine; Cortical noradrenaline (Cosi, C. (729) 264)

N-Methyl-4-phenylpyridine; Common marmoset; Nimodipine; Calcium; Neurotoxicity; Striatum; Substantia nigra (Kupsch, A. (741) 185)

Methylprednisolone
Cyclosporin A; Neural transplantation; Xenograft; Immunology; Inflammation; Cytokine; Brain; Rat (Duan, W.-M. (712) 199)

***N*-Methylscopolamine**
Freezing storage time; Muscarinic receptor; Alzheimer's disease (Rodríguez-Puertas, R. (728) 65)

17α-Methyltestosterone
Anabolic steroid; Radial-arm maze; Delayed non-match-to-sample; Methandrostenolone; Testosterone cypionate (Smith, S.T. (737) 313)

α-Methyl tryptophan
Serotonin; In vivo enzyme activity; Serotonin synthesis; Serotonergic mechanism (Ljubić-Thibal, V. (724) 222)

Methysergide
Acetylcholine; Analgesia; Atropine; Intrathecal; Naloxone; Noradrenaline; Serotonin; Spinal cord; Yohimbine (Fang, F. (722) 95)

Metyrapone
Cocaine; Reinforcement; Corticosterone; Self-administration; Adrenalectomy (Goeders, N.E. (722) 145)

Corticosterone; Cocaine; Stress-induced sensitization; Food restriction; Locomotor response; Psychomotor effects (Marinelli, M. (724) 251)

Self-stimulation; Corticosterone; Food restriction; Sensitization; Aminoglutethimide (Abrahamsen, G.C. (726) 39)

Mg^{2+}
Nonselective cation channel; G protein; Unit conductance; Power spectrum; Muscarinic receptor (Inoue, M. (739) 350)

MgATP
Exocytosis; SNAP-25; VAMP-2; Botulinum neurotoxin (Misonou, H. (737) 351)

Mice
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NMDA receptor antagonist; MK-801; LY 235959; D-Ala^2, Glu^4 deltorphin II; δ_2 opioid receptor agonist; Analgesic; Tolerance (Bhargava, H.N. (719) 56)

Amphetamine; Behavioral sensitization; Cholinergic; Cocaine; Nicotinic; Stereotypy (Karler, R. (725) 192)

Methamphetamine; Dopaminergic neurotoxicity; Nigral cell loss; Substantia nigra neuropathology; Animal model of Parkinson's disease; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine) (Sonsalla, P.K. (738) 172)

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Glial fibrillary acidic protein; Dephosphosphorylation; Okadaic acid; Calyculin A; Hippocampal slice (Vinadé, L. (732) 195)

Microdialysis
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Activity; Receptor antagonist; Behavior; Neuropeptide (Robinson, J.K. (709) 81)

Cerebral ischemia; Spatial cognition; 8-Arm radial maze task; Glutamate; Noradrenaline; Acetylcholine (Iwasaki, K. (709) 163)

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5HT; Progesterone; Ventromedial hypothalamus; Preoptic area; Midbrain central grey; Lordosis (Farmer, C.J. (711) 84)

Cerebral blood flow; Cerebral ischaemia; Excitotoxicity; Glutamate; κ-Opioid agonist; Neuroprotection (MacKay, K.B. (712) 329)

Acetylcholine; Hippocampus; Medial septal nucleus; Naloxone; Behavioral seizure; Rat (Mizuno, T. (713) 1)

Ibogaine; Noribogaine; Morphine; Cocaine; Drug self-administration; Dopamine (Glick, S.D. (713) 294)

Cerebral ischemia; Middle cerebral artery occlusion; Excitatory amino acids; Taurine; Rat (Herz, R.C.G. (715) 163)

Ethanol; Serotonin; Glutamate; Prefrontalcortex; Nucleus accumbens (Selim, M. (716) 157)

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Cytokine; Interleukin-2; Intracranial self-stimulation; Dopamine; Psychoneuroimmunology (Anisman, H. (731) 1)

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2-Deoxyglucose; Hyperglycemia; Hypothalamus; Acetylcholine; Norepinephrine; Pentobarbital; 6-Hydroxydopamine (Takahashi, A. (734) 116)

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Glutamate; Arcuate nucleus of hypothalamus; Extracellular level; Plasma level; Feeding (Bogdanov, M.B. (736) 76)

Chronic lead; Dentate gyrus; Glutamate release; GABA release; Calcium; Paired-pulse facilitation; Paired-pulse depression; MK-801 (Lasley, S.M. (736) 125)

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Prefrontal cortex; Dopamine release; Stress; Arousal; Handling; Novelty; Food consumption (Feenstra, M.G.P. (742) 17)

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R(+)-8-OH-DPAT; D-Amphetamine; Serotonin; Dopamine; 5-HT_{1A} receptor; Prefrontal cortex; Anxiety; Rat (Kuroki, T. (743) 357)

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Mytilus edulis; Morphine; Nitric oxide; Ganglion; Invertebrate (Liu, Y. (722) 125)

Ferritin; MPTP; Parkinson's disease; Oxidative stress; Immunohistochemistry (Goto, K. (724) 125)

Lectin; Glycoconjugate; Histochemistry; Olfactory receptor; Vomeronasal receptor; Olfactory bulb; Turtle (Franceschini, V. (725) 81)

Ischemia; Transferrin; Ferritin; Delayed neuronal death; Astrocyte; Oligodendrocyte; Immunocytochemistry (Ishimaru, H. (726) 23)

Neurodegeneration; Senile plaque; Dementia; Lipoprotein associated coagulation inhibitor; Proteinase inhibitor (Hollister, R.D. (728) 13)

Lipopolysaccharide; Protein tyrosine kinase inhibitor; Nitric oxide; Inducible nitric oxide synthase; Astrocyte (Kong, L.-Y. (729) 102)

Interleukin-2; Gene therapy; Blood–brain barrier; Brain tumor; Implantation (Nam, M. (731) 161)

Cerebral ischemia; Cerebral infarction; Leukocyte; Immunohistochemistry; Inflammation; Rat (Kato, H. (734) 203)

Heme oxygenase; Astrocyte; Macrophage; Bergmann glia; Heat shock protein (Fukuda, K. (736) 68)

Heat shock 70 gene expression; Tissue culture; Hybridization, in situ; Immunohistochemistry; Rat cerebellum; Neuron; Astrocyte (Voisin, P.J. (739) 215)

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Aggregating brain cell culture; Developmental neurotoxicity; Mercury chloride; Monomethylmercury chloride; Glial fibrillary acidic protein; Cell type-specific enzyme (Monnet-Tschudi, F. (741) 52)

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Microglial activation
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Microglial cell
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Microglial cells
Nitric oxide; Inducible nitric oxide synthase; β-Amyloid protein; Neurotoxicity; Interferon-γ; Alzheimer's disease (Ii, M. (720) 93)

Microgyria
[^{3}H]Thymidine; Bromodeoxyuridine; S-phase marker; Neocortex; Corticogenesis (Rosen, G.D. (727) 71)

Transgenic insertion mutation; Neuronal migration; Cortical ectopia; Mouse; *Perinatal lethality*; Dysgenesis; Cerebral cortex (Beier, D.R. (727) 196)

Microinfusion
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Microinjection
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Microiontophoresis
γ-Aminobutyric acid; Somatosensory; Cortex; Inhibition (Kyriazi, H.T. (712) 325)

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NMDA; AMPA; Kainate; Glutamate; Monkey; Pain; Neurotransmission (Dougherty, P.M. (728) 267)

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Microneurography
Muscle afferent; Muscle pain; Referred pain; Capsaicin (Marchettini, P. (740) 109)

Single unit recording; Action potential shape; Propagation block; Template matching; Human peripheral nerve; Concentric needle electrode (Wu, G. (742) 225)

Microphysiometry
Acidosis; Neuron death; Metabolism; Cortex; Hippocampus; Hypoxia ischemia; NMDA receptor (Trafton, J. (731) 122)

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Microsome
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Microsphere embolism
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Microtubule-associated protein 2
Cerebral ischemia; Gerbil; Ischemic tolerance; HSP70; Inclined plane (Kitagawa, K. (716) 39)

β-Amyloid precursor protein; β-Amyloid; MK-801; Traumatic brain injury; Dendrite; Axon (Lewén, A. (719) 161)

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Microvasculature
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Microvessel
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Microvillus
Choroid plexus; Ezrin; Cell polarity; Spaceflight; Gravity; Electron microscopy; Immunocytochemistry (Gabrion, J. (734) 301)

Microwave
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Microwave pretreatment
Human hypothalamus; Huntington's disease; Nucleus tuberalis lateralis (NTL); Somatostatin (Timmers, H.J.L.M. (728) 141)

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5-HT_{1A}; Benzodiazepine; Amygdala; 8-OH-DPAT; Plus-maze; Social interaction (Gonzalez, L.E. (732) 145)

Midbrain
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Hemitransection; Milk ejection burst; Oxytocin; Rat (Wang, Y.-F. (719) 203)

Male rat; Female rat; Medial preoptic area; Bed nucleus of the stria terminalis; Medial amygdala; Steroids; Copulation (Coolen, L.M. (738) 67)

Midbrain central gray (MCG)
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Microdialysis; 5HT; Progesterone; Ventromedial hypothalamus; Preoptic area; Lordosis (Farmer, C.J. (711) 84)

Midbrain periaqueductal gray
Defensive rage behavior; Medial hypothalamus; Excitatory amino acid; Receptor binding; Immunocytochemical labeling; NMDA receptor (Schubert, K. (726) 80)

Middle cerebral artery
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Middle cerebral artery occlusion
Cerebral ischemia; Microdialysis; Excitatory amino acids; Taurine; Rat (Herz, R.C.G. (715) 163)

Permanent focal cerebral ischemia; MCA-O; Wistar Kyoto rat; Brain; Behavior; Neurological examination (Van der Staay, F.J. (715) 180)

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Focal cerebral ischemia; MCA; MCA-O; Rat; Strain difference; Behavior; Behavioral examination (Van der Staay, F.J. (735) 271)

γ-Aminobutyric acid; Immunohistochemistry; *N*-methyl-D-aspartate receptor; Substantia nigra (Yamada, K. (743) 233)

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Migration
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Milacemide
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Milk ejection burst
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Mineralocorticoid receptor
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Miniature endplate current
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Miniswine
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Mitochondria
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Mitochondrion
Astrocyte in culture; Glutathione; Glutathione reductase; Oxidative stress; Ethacrynic acid (Huang, J. (711) 184)

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Axonal injury; Axotomy; Traumatic brain injury; Cytoskeleton; Neurofilament; Microtubule; Membrane (Pettus, E.H. (722) 1)

Fluorescent dye; Primary culture; Receptor localization (Hoyt, K.R. (731) 21)

Mitogenic response
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Mitral cell
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N-Methyl-D-aspartate antagonist; Dizocilipine maleate; Cingulate cortex; Neurotoxicity; Neuropathology; Spatial learning and memory; Sensorimotor; Activity; Mouse (Wozniak, D.F. (707) 165)

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Microtuble-associated protein 2; β-Amyloid precursor protein; β-Amyloid; Traumatic brain injury; Dendrite; Axon (Lewén, A. (719) 161)

NMDA; Flow cytometry; Cerebellum; Granule cell; Oxidative stress; Calcium; Indo-1 (Sureda, F.X. (723) 110)

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6-Hydroxydopamine; Striatum; L-DOPA; Fos protein; NMDA receptor; Dopaminergic transplant; Rat (Ishida, Y. (727) 205)

Cocaine; Conditioned locomotion; SCH 23390; (−)-sulpiride; DNQX; Rat (Cervo, L. (731) 31)

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Cerebral glucose metabolism; FR115427; CGS19755; NMDA receptor (Sharkey, J. (735) 67)

In situ hybridization; NBQX; Permanent MCAO; GFAP; SGP-2; Clusterin (Yamashita, K. (735) 285)

Chronic lead; Dentate gyrus; Glutamate release; GABA release; Calcium; Microdialysis; Paired-pulse facilitation; Paired-pulse depression (Lasley, S.M. (736) 125)

6-Hydroxydopamine; Levodopa; Motor fluctuation; Rotation (Marin, C. (736) 202)

Model
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$GABA_A$; Steroid; Barbiturate; Pregnanolone; Regulation; Uncoupling; Tolerance (Friedman, L.K. (707) 100)

Substance P; Dorsal root ganglion; ATP receptor; Whole-cell patch-clamp technique (Hu, H.-Z. (739) 163)

Potassium current; Inhibition; Transmembrane signaling (Villarroel, A. (740) 227)

Molecular cloning
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Mollusc
Ca^{2+}-binding protein; EF-hand; *Helix pomatia*; Invertebrate; Immunocytochemistry; Electrophysiology (Kubista, H. (716) 53)

Monensin
Heat shock; Intracellular pH; Alkalosis; HSP; Synthesis; C6 glioma (Neuhaus-Steinmetz, U. (724) 16)

Monkey
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Primary motor cortex; Precentral cortex; Corticospinal tract; Immunocytochemistry; Calcium-binding proteins; Seizure; Epilepsy (Preuss, T.M. (712) 353)

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NMDA; AMPA; Kainate; Glutamate; Pain; Microiontophoresis; Neurotransmission (Dougherty, P.M. (728) 267)

Visual recognition memory; Delayed nonmatching-to-sample; Cognitive impairment; NMDA receptor; Glycine receptor; HA-966; MK-801 (Matsuoka, N. (731) 72)

Monoamine oxidase; Dopamine; L-DOPA; Substantia nigra; Striatum; Parkinsonism; Deprenyl (Di Monte, D.A. (738) 53)

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Macaque; Taste; Amygdala; Satiety; Flavor (Yan, J. (740) 193)

Monkey brain
Positron emission tomography; L-[β-^{11}C]DOPA; Tetrahydrobiopterin; Dopamine; L-Tyrosine (Tsukada, H. (713) 92)

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DSP-4; Hippocampus; Odor preference; Olfactory bulb; Olfactory learning; Social stress (Cornwell, C.A. (711) 26)

Hyperalgesia; Glycine; γ-Aminobutyric acid; Neuropathy; Pain; Spinal cord (Satoh, O. (728) 27)

Dopamine; Striatum; Microdialysis; Immature brain; Anoxia; Hypoxia (Nakajima, W. (740) 316)

Serotonin; Dopamine; Norepinephrine; Salmon; Development (Ebbesson, S.O.E. (742) 339)

Monoamine oxidase
L-DOPA; Dopamine; Serotonin neuron; Pargyline; Dorsal raphe nucleus; Rat; Parkinson's disease (Arai, R. (722) 181)

Dopamine; L-DOPA; Substantia nigra; Striatum; Parkinsonism; Deprenyl; Monkey (Di Monte, D.A. (738) 53)

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Astrocyte, Type 1; Monoamine oxidase (MAO) A mRNA; Monoamine oxidase (MAO) B mRNA; Dexamethasone; RU 486; Deprenyl; Actinomycin D; Cycloheximide (Carlo, P. (711) 175)

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5-Hydroxyindoleacetic acid; Serotonin; Monoamine oxidase type A or B; Electrochemistry; Rat (Marinesco, S. (736) 82)

Monoamine oxidase (MAO) A mRNA
Astrocyte, Type 1; Monoamine oxidase expression; Monoamine oxidase (MAO) B mRNA; Dexamethasone; RU 486; Deprenyl; Actinomycin D; Cycloheximide (Carlo, P. (711) 175)

Monoamine oxidase (MAO) B mRNA
Astrocyte, Type 1; Monoamine oxidase expression; Monoamine oxidase (MAO) A mRNA; Dexamethasone; RU 486; Deprenyl; Actinomycin D; Cycloheximide (Carlo, P. (711) 175)

Monoamine oxidase type A or B
5-Hydroxyindoleacetic acid; Serotonin; Monoamine oxidase inhibitor; Electrochemistry; Rat (Marinesco, S. (736) 82)

Monoclonal antibody
Limbic system; Regional specificity; Immunohistochemistry; Western blot; Synapse; Hippocampus (Fukuyama, R. (719) 194)

Ganglioside; Immunocytochemistry; Differential marker; Neuron (Kawashima, I. (732) 75)

Astrocyte; Glial fibrillary acidic protein; Retina; Mouse brain; Subtype (Kobayashi, K. (740) 57)

Monoclonal antibody C38
Axonal regeneration; Retina, flat-mounted; Immunohistochemistry; Rat; Retinal ganglion cell (Wakabayashi, T. (725) 121)

Monoclonal antibody RC1
Spinal cord injury; Endothelin-1; Astrocyte; SB209670 (Uesugi, M. (728) 255)

Monocular deprivation
Amblyopia; Critical period; Hooded rat; Nerve growth factor; Visual evoked response (Yan, H.Q. (706) 318)

Monocyte recruitment
Lipopolysaccharide, intracerebral injection; Brain inflammation; Microglial activation; Rat; Irradiation (Montero-Menei, C.N. (724) 55)

Monoethylcholine
Quantum; Miniature endplate current; Acetylcholine; Synaptic vesicle; Endplate (Naves, L.A. (730) 58)

Monomethylmercury chloride
Aggregating brain cell culture; Developmental neurotoxicity; Mercury chloride; Microglia; Glial fibrillary acidic protein; Cell type-specific enzyme (Monnet-Tschudi, F. (741) 52)

Monosynaptic reflex
Serotonin; 5-HT_{1A} receptor; 5-$HT_{2A/2C}$ receptor; Spinal cord; α-Motoneuron; Primary afferent (Hasegawa, Y. (738) 158)

Morphine
MK-801; Hyperglycemia; Rat (Meijerink, W.J.H.J. (706) 123)

Opiate tolerance and dependence; Adenylate cyclase supersensitivity; Stimulatory signal transduction; μ Opioid receptor; PGE_1 receptor; Stimulatory G protein; SH-SY5Y cell (Ammer, H. (707) 235)

Naloxone; Dynorphin; Amino acid; Dopamine; Microdialysis; Rat (You, Z.-B. (710) 241)

Ibogaine; Noribogaine; Cocaine; Drug self-administration; Microdialysis; Dopamine (Glick, S.D. (713) 294)

Locus coeruleus; Nociception; Noradrenaline; Naloxone; C-fiber (Hirata, H. (714) 9)

c-Fos; Naltrexone; Opioid; Withdrawal; Brain; Guinea-pig (Chahl, L.A. (717) 127)

Ibogaine; *Iboga* alkaloid; 18-Methoxycoronaridine; Cocaine; Drug self-administration (Glick, S.D. (719) 29)

Mytilus edulis; Nitric oxide; Microglia; Ganglion; Invertebrate (Liu, Y. (722) 125)

Analgesia; Thalamus neuron; Morphine-6-glucuronide; Intravenous; Intrathecal (Jurna, I. (722) 132)

Butorphanol; Physical dependence; Glutamate; Locus coeruleus; Microdialysis; Diltiazem; L-type Ca^{2+} channels (Tokuyama, S. (722) 212)

Dopamine metabolism; Ascorbic acid oxidation; Withdrawal; Excitotoxicity; Striatum; Limbic forebrain (Desole, M.S. (723) 154)

Glucose utilization; 2-Deoxyglucose; Locus coeruleus; Amygdala; Metabolic rate (Kraus, M.A. (724) 33)

Scratch reflex; NK-1 receptor antagonist; Spinal cord; Intrathecal injection (Sakurada, T. (724) 213)

Opioid; U50,488H; Fos; Brain; Reward; Guinea-pig (Bot, G. (731) 45)

Antinociception; c-Fos; Spinal cord; Carrageenin; μ-Opioid receptor; β-Funaltrexamine (Honoré, P. (732) 242)

Withdrawal syndrome; Naloxone; Locus coeruleus; Voltammetry; Nitric oxide synthase inhibitor (Hall, S. (739) 182)

Analgesia; β-Endorphin; Amygdala; Periaqueductal gray; μ Opioid receptor; δ_2 Opioid receptor (Pavlovic, Z.W. (741) 13)

Antinociception; Ibogaine; Noribogaine (Bagal, A.A. (741) 258)

Maternal behavior; Opioid; Mesolimbic; Ventral tegmental area; Naltrexone methobromide; Rat (Thompson, A.C. (743) 184)

Morphine analgesia
Opioid; μ Opioid receptor; Glucoprivation; Angiotensin II (Leventhal, L. (719) 78)

Morphine-6-glucuronide
Analgesia; Thalamus neuron; Morphine; Intravenous; Intrathecal (Jurna, I. (722) 132)

Morphine tolerance
Opiate tolerance; Opiate; Dizolcipine; NMDA receptor; Glutamate; Intracellular calcium (Garcia, M.M. (734) 123)

Morphology
Dendritic release; Autoreceptor; Neuroleptic; Midbrain (Pucak, M.L. (713) 44)

Chick; Learning; Plasticity; Electrophysiology (Bradley, P.M. (727) 125)

Cingulate cortex; Nociceptive specific neuron; Intracellular recording; Neurobiotin (Yamamura, H. (735) 83)

Dye coupling; Dendritic shrinkage; Hippocampus; Tetanus toxin; Epilepsy; Biocytin (Colling, S.B. (741) 38)

Morphometric analysis
Circannual rhythm; Rat; Suprachiasmatic nucleus; Pinealectomy; Ganglionectomy; Thyroidectomy (Peschke, E. (740) 81)

Morphometry
Dog; Aging; Diffuse plaque; Cluster analysis (Węgiel, J. (728) 20)

Mouse; Hippocampus; Hilus; Mossy fiber; Species difference (Donovan, J. (732) 253)

Receptor autoradiography; [^{125}I] *p*-Iodoclonidine; Noradrenergic neuron; Neuromelanin (Klimek, V. (741) 263)

Vasopressin; Vasoactive intestinal polypeptide; Suprachiasmatic nucleus; Microwave; Antigen retrieval (Zhou, J.-N. (742) 334)

Morris maze
Autoimmunity; Cortex; Cortical development; Dyslexia; Enriched environment; Ectopia; Hebb-Williams maze; Lashley maze; Neuronal migration; Reference memory (Boehm, G.W. (726) 11)

Morris water maze
Infant convulsion; Hyperthermia; Pentylenetetrazol; Locomotor; Activity; Convulsion susceptibility (Kornelsen, R.A. (706) 155)

Hippocampus; Excitatory synapse; Calcium/calmodulin-dependent protein kinase II; KN-62 (Tan, S.-E. (711) 234)

Dihydro-beta-erythroidine; Nicotinic antagonist; Radial arm maze; Spatial memory; Rat (Curzon, P. (714) 185)

Isolation rearing; Learning; Scopolamine; Rat (Wongwitdecha, N. (715) 119)

192-IgG-saporin; Aged rat; Spatial memory; Acoustic startle; Medial septum (Bannon, A.W. (718) 25)

D-Cycloserine; Glycine site; Memory; *N*-methyl-D-aspartate; Rat; Treatment (Temple, M.D. (741) 246)

Mossy fiber
Opioid peptide; Dense-core vesicle; Dentate gyrus; Electron microscopy; Learning and memory (Commons, K.G. (724) 1)

Mouse; Hippocampus; Hilus; Morphometry; Species difference (Donovan, J. (732) 253)

Excitatory amino acid receptor; Dentate gyrus; Ammon's horn (Blümcke, I. (736) 217)

Long-term potentiation; Protein kinase C; F1/GAP-43; Phosphorylation; Hippocampus (Son, H. (739) 282)

Mossy fiber-CA3 synapse
Protein malnutrition; Hippocampus; Neuronal degeneration; Stereology; Rat (Andrade, J.P. (718) 1)

Motility
Ca-ATPase; Calcium; Cochlea; Hearing; Outer hair cell (Zine, A. (721) 1)

Motivation
Ventral tegmental area; Opioid; Sexual behavior; Reward; Anticipatory behavior (Van Furth, W.R. (729) 20)

Motivational aspects
Cocaine; Heroin; Self-administration; Initiation phase; Nucleus accumbens; Dopamine; 6-Hydroxydopamine (Gerrits, M.A.F.M. (713) 114)

Motoneuron
Acetylcholinesterase; Enzyme histochemistry; Descending tract; Spinal cord injury (Nacimiento, W. (714) 177)

Choline acetyltransferase; Facial nucleus; Neuron survival; Cell death; Regeneration (Gilad, V.H. (724) 141)

Hypoglossal; Styloglossus; Hyoglossus; Tongue; Cholera toxin-HRP; Rat (Guo, Y. (728) 277)

Axotomy; Ciliary neurotrophic factor; Adult; Ultrastructure; Rat (Demetriou, T. (733) 312)

Adriamycin; Doxorubicin; Aging; Neurotoxicity; Equivalent cylinder; Cell size; Intracellular recording (Liu, R.-H. (738) 121)

Rat; Spinal cord; Brachial enlargement; Forelimb; Motor nucleus; Fluorescent tracer (Choi, J.Y. (738) 146)

α-Motoneuron
Spinal cord; Axonal lesion; Retrograde reaction; Ventral root avulsion; Cat (Holmberg, P. (731) 155)

Serotonin; 5-HT$_{1A}$ receptor; 5-HT$_{2A/2C}$ receptor; Spinal cord; Primary afferent; Monosynaptic reflex (Hasegawa, Y. (738) 158)

Motoneuronal death
NADPH-diaphorase; Sciatic nerve cut (He, B.P. (733) 125)

Motoneuron death
Neuronal bungarotoxin; Neuromuscular junction; Spinal cord; Apoptosis; α-Bungarotoxin (Renshaw, G.M.C. (709) 316)

Motoneuron disease
Wobbler mouse; Spinal cord; Thyrotropin releasing hormone; Substance P; Serotonin; Receptor; Quantitative autoradiography (Deng, Y.-P. (725) 49)

Interleukin-6; Interleukin-6 receptor; Glycoprotein gp130; Ciliary neurotrophic factor; Leukemia inhibitory factor; Wobbler (Ikeda, K. (726) 91)

Motor
Dopamine; Parkinson; Striatum; L-DOPA; Putamen (Cousins, M.S. (732) 186)

Motor activity
Norepinephrine; Vasopressin; Oxytocin; Prolactin; Conditioned fear; Novelty stress; Noxious stimulus (Onaka, T. (713) 261)

Serotonin; Dorsal raphe nucleus; Single unit activity; Cat; Feeding; Grooming; Central pattern generator (Fornal, C.A. (716) 123)

Excitotoxin; Response-reinforcement; Core; Shell; Subregion; Re_{50}; R_{max} (Johnson, P.I. (722) 109)

Methylphenidate; Ritalin; Dose response; Psychomotor stimulant; Behavior (Gaytan, O. (727) 13)

Intracerebroventricular pressure; Orthostatic restraint; Antiorthostatic restraint; Rat (Maurel, D. (736) 165)

Motor control
Thalamus; Neuronal activity; Kinematics (Butler, E.G. (736) 146)

Motor coordination
Cerebellum; Spatial orientation; Visual discrimination learning; Fastigial nucleus; Sensorimotor learning (Joyal, C.C. (739) 1)

Motor cortex
Basal ganglia; Globus pallidus; Thalamus; Supplementary motor area; Monkey (Kayahara, T. (706) 337)

Basal ganglia; Striatum; Corticospinal cell; Second somatosensory cortex; Corticothalamic cell (Lévesque, M. (709) 311)

Corticospinal neuron; Plasticity; Dendritic branching; Recovery of function; Skilled forelimb use in rat (Prusky, G. (714) 1)

Synaptic plasticity; Restoration of function; Motor learning; Layer V; Stereology; Forelimb behavior (Jones, T.A. (733) 142)

Movement; Human; Magnetoencephalography; Spectral power; Spontaneous activity; Somatosensory cortex; Cortical rhythm; Event-related spectral change; Movement-related magnetic field (Feige, B. (734) 252)

Motor field
Magnetoencephalography; Somatosensory cortex; Human; Movement-related magnetic field; Anesthesia; Movement-evoked field I (Kristeva-Feige, R. (714) 201)

Motor fluctuation
6-Hydroxydopamine; Levodopa; MK801; Rotation (Marin, C. (736) 202)

Motor learning
Adaptation; Cross axis; Medial vestibular nucleus; Plasticity; Single unit; Superior vestibular nucleus; Vestibulo-ocular reflex (Quinn, K.J. (718) 176)

Synaptic plasticity; Motor cortex; Restoration of function; Layer V; Stereology; Forelimb behavior (Jones, T.A. (733) 142)

Motor loop
Parkinson's disease; Human; Basal ganglia; *N*-Methyl-D-asparate receptor; Dopamine; γ-Aminobutyric acid; Glutamate; Parkinsonian symptom (Gerlach, M. (741) 142)

Motor neuron
Sensory neuron; Cholinergic neuron; Cognition (Moeller, I. (712) 307)

Motor neuron death
Rabbit; Spinal ischemia; Cu/Zn superoxide dismutase; Nitric oxide synthase; Nitrotyrosine (Watanabe, M. (732) 69)

Motor nucleus
Rat; Spinal cord; Brachial enlargement; Forelimb; Motoneuron; Fluorescent tracer (Choi, J.Y. (738) 146)

Motor pattern
Insect; Locust; Flight; Temperature; Membrane potential; PSP amplitude (Xu, H. (734) 213)

Motor unit
Wrist extensor muscle; Human; Post-effect; Post-vibratory contraction; Electromyography (Ribot-Ciscar, E. (716) 84)

Rate coding strategy; Biceps brachii; First dorsal interosseous; Muscle fiber composition (Seki, K. (719) 1)

Mouse
Cannabinoid; Receptor down-regulation; Tolerance; Adenylyl cyclase; CP 55,940 (Fan, F. (706) 13)

N-Methyl-D-aspartate antagonist; Dizocilipine maleate; MK-801; Cingulate cortex; Neurotoxicity; Neuropathology; Spatial learning and memory; Sensorimotor; Activity (Wozniak, D.F. (707) 165)

Social isolation stress; Pentobarbital sleep; Corticotropin releasing factor (CRF); Neurosteroid; Noradrenergic system (Matsumoto, K. (708) 1)

Analgesia; Blood–brain barrier; Dalargin; Nanoparticle; Poly(butylcyanoacrylate) (Schröder, U. (710) 121)

Autotomy; Neuropathic pain; Spinal cord (Defrin, R. (711) 241)

Vomeronasal organ; Trigeminal ganglion; Sphenopalatine ganglion; Nitric oxide synthase; Neuropeptide; Coexistence; Dual band filter (Matsuda, H. (712) 35)

Circadian rhythm; Olfactory bulbectomy; Fluoxetine; Wheel-running activity (Possidente, B. (713) 108)

Protein kinase C; Inhibition; Sciatic nerve; Immunohistochemistry; Regeneration (Wiklund, P. (715) 145)

Tyrosine hydroxylase; Locus coeruleus; Perikarya; Neuropile; Plasticity; Immunoautoradiography; Topology (Ginovart, N. (719) 45)

Tyrosine hydroxylase; Locus coeruleus; Plasticity; Immunocytochemistry; Topology (Ginovart, N. (721) 11)

Neuropeptide Y; Neuropeptide Y receptor; Antinociception; Feeding; Opioid receptor; α_2-Adrenoceptor (Broqua, P. (724) 25)

Autometallography; Bismuth; Heavy metal; Hydrocephalus; Neurotoxicity; Tissue distribution (Ross, J.F. (725) 137)

Inner ear; *bcl-2*; *bax*; *bcl-x*; In situ hybridization (Ishii, N. (726) 123)

Circadian rhythm; Non-photic entrainment; Vitamin B_{12}; Saline; Daily injection (Ebihara, S. (727) 31)

Transgenic insertion mutation; Neuronal migration; Cortical ectopia; *Perinatal lethality*; Microgyria; Dysgenesis; Cerebral cortex (Beier, D.R. (727) 196)

Androgen; Brain; Marking; Preference; Sexual behavior; Ultrasonic vocalizations; Urine (Sipos, M.L. (729) 29)

Adrenergic receptor; Hypothalamus; Septal-hippocampal pathway; Tyrosine; Cognitive function; Eight-arm maze; Diet restriction; Anorexia nervosa (Avraham, Y. (732) 133)

Hippocampus; Hilus; Morphometry; Mossy fiber; Species difference (Donovan, J. (732) 253)

Astrocyte; Microglia; LP-BM5 virus; Dementia; AIDS (Kustova, Y. (742) 271)

Histamine H_3 receptor; Binding, ex vivo; Brain penetration; Rat; [^{125}I]Iodophenpropit; Thioperamide; Clobenpropit (Mochizuki, T. (743) 178)

Huntingtin; mRNA; 3′ Untranslated region; Tissue distribution; Brain (Casanova, E. (743) 320)

Mouse brain
Monoclonal antibody; Astrocyte; Glial fibrillary acidic protein; Retina; Subtype (Kobayashi, K. (740) 57)

Mouse, inbred strain C57BL/6
N-Methyl-D-aspartate; Ethanol; Single-channel recording; Kinetic analysis; Whole-cell recording (Wright, J.M. (738) 249)

Mouse strain difference
Amiloride sensitivity; Sodium taste receptor; Temperature dependency; NaCl preference; Chorda tympani nerve (Ninomiya, Y. (708) 153)

Movement
Human; Magnetoencephalography; Spectral power; Spontaneous activity; Motor cortex; Somatosensory cortex; Cortical rhythm; Event-related spectral change; Movement-related magnetic field (Feige, B. (734) 252)

Vestibular sensory system; Somato-autonomic reflex; Autonomic nervous system; Gravity; Orthostatic hypotension (Ruggiero, D.A. (743) 294)

Movement disorder
Human motor control; Cerebellum; Force control; Movement speed; Ataxia; Arm movement (Wild, B. (713) 186)

Neuronal activity; Basal ganglia (Ebert, U. (728) 125)

Movement-evoked field I
Magnetoencephalography; Somatosensory cortex; Human; Movement-related magnetic field; Anesthesia; Motor field (Kristeva-Feige, R. (714) 201)

Movement-related magnetic field
Magnetoencephalography; Somatosensory cortex; Human; Anesthesia; Movement-evoked field I; Motor field (Kristeva-Feige, R. (714) 201)

Movement; Human; Magnetoencephalography; Spectral power; Spontaneous activity; Motor cortex; Somatosensory cortex; Cortical rhythm; Event-related spectral change (Feige, B. (734) 252)

Movement speed
Human motor control; Movement disorder; Cerebellum; Force control; Ataxia; Arm movement (Wild, B. (713) 186)

MPOA-AH
Flank marking; NMDA receptor; Non-NMDA receptor; Aggression (Bamshad, M. (731) 213)

MPP$^+$
MPTP; Heat shock protein; Cytotoxicity; Fibroblast (Freyaldenhoven, T.E. (735) 42)

MPTP; Striatal dopamine; Gender; CD-1 mouse; Neurotoxicity (Freyaldenhoven, T.E. (735) 232)

MPTP
Autoradiography; Basal ganglia; Dopamine D_3 receptor; Dyskinesia; L-DOPA; Marmoset; Psychosis (Hurley, M.J. (709) 259)

Methamphetamine; Malonate; Mice; Striatum; Dopamine; Metabolic inhibition; Energy metabolism (Albers, D.S. (718) 217)

Parkinson's disease; Dyskinesia; Dopamine receptor; Tolerance; Monkey; Catecholamine (Goulet, M. (719) 129)

Ferritin; Parkinson's disease; Oxidative stress; Microglia; Immunohistochemistry (Goto, K. (724) 125)

Parkinsonism; Bromocriptine; L-DOPA; C57BL/6 mouse (Fukuda, T. (728) 274)

MPP$^+$; Heat shock protein; Cytotoxicity; Fibroblast (Freyaldenhoven, T.E. (735) 42)

MPP$^+$; Striatal dopamine; Gender; CD-1 mouse; Neurotoxicity (Freyaldenhoven, T.E. (735) 232)

Parkinson's disease; Dyskinesia; Cabergoline; $GABA_A$ receptor; Dopamine D_2 receptor (Grondin, R. (735) 298)

MQAE
Chloride-sensitive indicator; Receptor-mediated chloride flux; $GABA_A$ receptor; Glycine receptor; Neurotransmitter release (Engblom, A.C. (712) 74)

M1 receptor
APP secretion; PI metabolism; AF102B; Various brain regions; Alzheimer's disease (Pittel, Z. (742) 299)

Multicatalytic
Ubiquitin; Protease; Proteasome; Myelin basic protein; Brain (Akaishi, T. (722) 139)

Multielectrode
Recording; Electrode array; Electrophysiology; Parallel processing; Visual cortex (Nordhausen, C.T. (726) 129)

Multiparametric monitoring
Human brain monitoring; Cerebral blood flow; Extracellular K^+; NADH redox state; Cortical spreading depression; Intracranial pressure; Head trauma (Mayevsky, A. (740) 268)

Multiple dye filter
Peptidergic innervation; Coexistence; Double labelling immunofluorescence; Carotid labyrinth (Kusakabe, T. (735) 307)

Multiunit activity
Ventromedial hypothalamic nucleus; Rostral ventrolateral medulla; Blood pressure; Heart rate; Rat (Hirasawa, M. (724) 186)

Muscarinic
Choline; Oxytocin; Nicotinic; Hemicholinium-3; Osmotic stimulation; Hemorrhage (Savci, V. (709) 97)

Memory; Radial-arm maze; Hippocampus; Nucleus accumbens; Nicotinic; Scopolamine; Mecamylaine (Kim, J.S. (725) 231)

Traumatic brain injury; Fluid percussion; Phosphatidylinositol bisphosphate; Diacylglycerol; Free fatty acid; Arachidonic acid; Scopolamine; Rat (Lyeth, B.G. (742) 63)

Muscarinic acetylcholine receptor
Chronic hypoperfusion; Ligation of bilateral common carotid artery; Incomplete ischemia; Wistar rat; Rarefaction; Cerebrovascular type dementia; Discrimination learning (Tanaka, K.-i. (729) 55)

Muscarinic antagonist
Selectivity; Intact cerebellar granule cell; Intrinsic activity (Saunders, P.A. (713) 29)

Muscarinic M1-receptor
Transient ischemia; Spontaneously hypertensive rat; Acetylcholine; Choline acetyltransferase; Acetylcholine esterase (Ogawa, N. (712) 60)

Muscarinic-nicotinic receptor
Acetylcholine; Visual cortex; LDTg; DLG; Rat (Lewandowski, M.H. (706) 233)

Muscarinic receptor
Hemicholinium-3 binding; Choline acetyltransferase; Tyrosine hydroxylase; Septum; Hippocampus; Developmental lead-exposure; Fimbria-fornix transection; Superior cervical ganglionectomy (Bielarczyk, H. (708) 108)

Phospholipase C; Phosphoinositide; PLC-mRNA; In situ hybridization; Aging; Fisher rat; Brain; Signal transduction (Narang, N. (708) 143)

Medial septum; Hippocampus; Sympathetic ingrowth; Lesion; Protein kinase C; PKC activity; Plasticity (Ayyagari, P.V. (708) 205)

Alzheimer's disease; Glutathione; Trolox; Free radical; Thiyl radical (Frey II, W.H. (714) 87)

Electron microscopy; Acetylcholine; Astroglia; Microvessel (Luiten, P.G.M. (720) 225)

Acetylcholinesterase; Hippocampus; Ischemia; Synaptic plasticity (Huang, Y.-L. (722) 195)

Tacrine; In vitro ACh release; Cortical synaptosome; Atropine; AF-DX 116; Pirenzepine (Svensson, A.-L. (726) 207)

N-Methylscopolamine; Freezing storage time; Alzheimer's disease (Rodríguez-Puertas, R. (728) 65)

Nicotinic receptor; Development; Brain; Chronic treatment; Nicotine (Zhu, J. (732) 257)

Acetylcholine; Hybridization, in situ; Neostriatum; Suicide transport; Volkensin (Harrison, M.B. (734) 323)

Nonselective cation channel; G protein; Mg^{2+}; Unit conductance; Power spectrum (Inoue, M. (739) 350)

Restraint; Oxotremorine; Locomotor activity; Acetylcholine; Prefrontal cortex; DBA/2 mice (Pullia, D. (743) 333)

Muscimol
Predatory attack behavior; Medial amygdala; Hypothalamus; GABA; $GABA_A$ receptor; Bicuculline; Cat (Han, Y. (716) 72)

Ammonia; Flunitrazepam; $GABA_A$ receptor; Liver failure (Ha, J.-H. (720) 35)

Stress; Dorsomedial hypothalamus; Paraventricular nucleus; Heart rate; Blood pressure; Adrenocorticotrophic hormone (ACTH) (Stotz-Potter, E.H. (742) 219)

Muscle afferent
Microneurography; Muscle pain; Referred pain; Capsaicin (Marchettini, P. (740) 109)

Muscle ergoceptor
Capsaicin; Neurokinins; III group afferent; IV group afferent; Muscle nociceptor; Dorsal root; Ventral root; Oculomotor nerve (Della Torre, G. (713) 223)

Muscle fiber
Fibroblast growth factor family; Immunocytochemistry; Rat (Junttila, T. (707) 81)

Muscle fiber composition
Motor unit; Rate coding strategy; Biceps brachii; First dorsal interosseous (Seki, K. (719) 1)

Muscle nociceptor
Capsaicin; Neurokinins; III group afferent; IV group afferent; Muscle ergoceptor; Dorsal root; Ventral root; Oculomotor nerve (Della Torre, G. (713) 223)

Muscle pain
Microneurography; Muscle afferent; Referred pain; Capsaicin (Marchettini, P. (740) 109)

Muscle relaxant
Benzodiazepine; Back muscle; Progesterone; Lordosis; Midbrain central gray (MCG); Periaqueductal gray (PAG); Reticular formation (Schwartz-Giblin, S. (710) 178)

Muscle rigidity
Haloperidol; Atropine; Dantrolene sodium; Forced hyperthermia; Creatine phosphokinase; Set-point; Neuroleptic malignant syndrome (Tanii, H. (743) 263)

Muscle spindle
Kinaesthesia; Proprioception; Intrafusal; Elbow joint; Contraction; Stretch; Afferent; Sensation (Wise, A.K. (735) 125)

Mustard oil
Hyperalgesia; Neurotensin; Cholecystokinin; Rostral ventromedial medulla; Descending pain facilitation (Urban, M.O. (737) 83)

Mutant mouse
Neuro-glia interaction; S-100β; Serotonin; 5-HT_{1A}; Transplantation; Immunocytochemistry (Ueda, S. (738) 15)

Axonal sprouting; Entorhinal cortex; Hippocampus; Neuromorphological plasticity; Septum (Shi, B. (740) 89)

Mutation
AChR subunit; Phosphorylation; Protein kinase C; Xenopus oocyte; Phorbol ester (Limatola, C. (742) 172)

Myelin
Human; Neurite outgrowth inhibition; Central nervous system (Ng, W.P. (720) 17)

Myelin-associated glycoprotein; Myelin basic protein; Primate; Protease (Möller, J.R. (741) 27)

Myelin associated glycoprotein
Myelin basic protein; Neuron–glia cell adhesion molecule; Development; Lateral superior olive; Auditory; MAG; MBP; L1 (Hafidi, A. (736) 35)

Myelin; Myelin basic protein; Primate; Protease (Möller, J.R. (741) 27)

Myelinated perikarya
Axonal transport; Dorsal root ganglia; 3,3′-Iminodipropionitrile; Neurofilament; Neurotoxicity; Proximal axonopathy; Vestibular ganglia (Llorens, J. (717) 118)

Myelin basic protein
Ubiquitin; Protease; Proteasome; Multicatalytic; Brain (Akaishi, T. (722) 139)

Myelin associated glycoprotein; Neuron–glia cell adhesion molecule; Development; Lateral superior olive; Auditory; MAG; MBP; L1 (Hafidi, A. (736) 35)

Myelin; Myelin-associated glycoprotein; Primate; Protease (Möller, J.R. (741) 27)

Myenteric neuron
Pulsed nitrogen laser; Calbindin-D_{28}; Intracellular free calcium; ATP; AH/Type 2; Dogiel type II; S/Type 1; Enteric glia (Christofi, F.L. (725) 241)

Mytilus edulis
Morphine; Nitric oxide; Microglia; Ganglion; Invertebrate (Liu, Y. (722) 125)

N

Na^+
Neurotoxicity; Cell death; Hippocampus; Glutamate; Uptake; NMDA; Ca^{2+} (Takahashi, M. (735) 1)

NAC
NACP; Dot-blot; Synaptic pathology; Early Alzheimer's disease neurodegeneration; Synaptic protein; Synuclein (Iwai, A. (720) 230)

Na^+–Ca^{2+} exchanger
Heat shock protein; Cell death; Calcium; Glia (astrocyte) (Takuma, K. (735) 265)

Na channel
Transcription; A23187; Neuroblastoma (Hirsh, J.K. (706) 343)

Up-regulation; Cyclic adenosine monophosphate (cyclic AMP)-dependent protein kinase; [^{3}H]Saxitoxin binding; ^{22}Na influx; ^{45}Ca influx; Catecholamine secretion; Adrenal medulla (Yuhi, T. (709) 37)

NaCl
Lysine deficiency; Gustation; Nutrition; Nutritional (Tabuchi, E. (739) 139)

NaCl preference
Amiloride sensitivity; Sodium taste receptor; Temperature dependency; Mouse strain difference; Chorda tympani nerve (Ninomiya, Y. (708) 153)

Na^+ concentration
Dorsal motor nucleus of vagus; Gastric vagus; Osmoreceptor; Hepatic; Portal vein; Water; Hypotonic; Mannitol; Rat (Kobashi, M. (706) 21)

NACP
NAC; Dot-blot; Synaptic pathology; Early Alzheimer's disease neurodegeneration; Synaptic protein; Synuclein (Iwai, A. (720) 230)

NADH
Hippocampal slice; Oxidative phosphorylation; Chemical inhibition; Uncoupling; Selective vulnerability; CA1; CA3 (Riepe, M.W. (710) 21)

NADH redox state
Human brain monitoring; Cerebral blood flow; Extracellular K^+; Cortical spreading depression; Intracranial pressure; Multiparametric monitoring; Head trauma (Mayevsky, A. (740) 268)

NADH-ubiquinone oxidoreductase
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); 1-Methyl-4-phenylpyridine (MPP^+); Neurotoxicity; Succinate-ubiquinone oxidoreductase; Ubiquinol-cytochrome *c* reductase; Cytochrome *c* oxidase (Desai, V.G. (715) 1)

NADPH-cytochrome *P*-450 reductase
Reduction potential; Electron affinity; Rat brain microsomes; Redox cycling of xenobiotics; Superoxide radical; Quinone; Nitroheterocycle; Bipyridinium; Brain ageing; Neurodegeneration (Livertoux, M.-H. (725) 207)

NADPH-diaphorase
Guinea-pig; Colon; Submucous ganglia; Choline acetyltransferase (Wang, X.-Y. (712) 107)

DPIP; Enzyme histochemistry; Brain; Infrared; Snake (Jiang, P.-J. (713) 168)

Anamniote; Nitric oxide synthase; Olfactory system (Porteros, A. (724) 67)

Acetylcholinesterase; Intracardiac plexus; Human; Monkey; Dog; Right atrium (Yoshida, K. (724) 256)

Nitric oxide; Catecholamine; Amphibian; Evolution (González, A. (727) 49)

Kainic acid; Excitotoxin; Brain; Nitric oxide synthase; Glial cell; Endothelial cell (Lei, D.-L. (730) 199)

EL mouse; Nitric oxide; Hippocampal formation; Convulsive seizure; Epilepsy (Nagatomo, I. (730) 223)

Motoneuronal death; Sciatic nerve cut (He, B.P. (733) 125)

Somatostatin; Neuropeptide Y; Nitric oxide synthase; Co-localization; Striatum; Basal ganglia (Figueredo-Cardenas, G. (735) 317)

Calbindin D-28k; Calcitonin gene-related peptide; Immunohistochemistry; Jugular ganglion; Nodose ganglion; Petrosal ganglion; Tyrosine hydroxylase (Ichikawa, H. (735) 325)

Nitric oxide synthase; Estrogen receptor; Ventromedial hypothalamus; Immunocytochemistry; Electron microscopy; Reproductive behavior (Rachman, I.M. (740) 291)

Nitric oxide synthase; Brain; Anura; Frog (Brüning, G. (741) 331)

Nitric oxide synthase; Ultrastructural localization; Retina; Goldfish (Villani, L. (743) 353)

NADPH-P450 oxidoreductase
Basal ganglia; Brain; CYP2E1; Immunohistochemistry; P450; Parkinson's disease (Riedl, A.G. (743) 324)

Nafadotride
Amisulpride; Antipsychotic; Locomotor activity; Nucleus accumbens (Barik, S. (737) 347)

Na^+/H^+ antiporter
Amiloride; Methylisobutyl amiloride; Intracellular acid-base balance; 5-N substituted amiloride analog (Lin, C.-W. (731) 108)

^{22}Na influx
Na channel; Up-regulation; Cyclic adenosine monophosphate (cyclic AMP)-dependent protein kinase; [^{3}H]Saxitoxin binding; ^{45}Ca influx; Catecholamine secretion; Adrenal medulla (Yuhi, T. (709) 37)

Na^+,K^+-ATPase
Newborn; Brain injury; Hypoxia; Outcome; Energy metabolism (Rosenkrantz, T.S. (730) 52)

Na,K-ATPase
Dialysis; Noradrenaline; Non-exocytotic release; Ouabain; Pargyline (Yamazaki, T. (737) 343)

Na^+/K^+-ATPase inhibitor
Ouabain; Excitotoxin; Glutamate receptor agonist; Glutamate receptor antagonist; Neuronal cytotoxicity (Lees, G.J. (714) 145)

Na/K pump
Glial cell; Potassium; Oligodendrocyte; Patch clamp; N20.1 cell line; Potassium homeostasis (Dobretsov, M. (724) 103)

NA-LC system
Sleep deprivation; Sleep recovery; Methylamphetamine; Water tank; DSP-4
(Del C. González, M.M. (740) 215)

Naloxone
Autonomic; δ; Enkephalin; ICI 154,129; μ; Opioid; Solitarius; Vagal (Feldman, P.D. (709) 331)

Morphine; Dynorphin; Amino acid; Dopamine; Microdialysis; Rat (You, Z.-B. (710) 241)

Acetylcholine; Hippocampus; Medial septal nucleus; Behavioral seizure; Rat; Microdialysis (Mizuno, T. (713) 1)

Locus coeruleus; Nociception; Noradrenaline; Morphine; C-fiber (Hirata, H. (714) 9)

Dopamine D_2 receptor gene; Alcoholism; Opiate receptor; Frontal cortex; Caudate nucleus (Ritchie, T. (718) 193)

Acetylcholine; Analgesia; Atropine; Intrathecal; Methysergide; Noradrenaline; Serotonin; Spinal cord; Yohimbine (Fang, F. (722) 95)

Non-steroidal antiinflammatory drug; Dipyrone; Opiates; Periaqueductal gray; Off-cell; On-cell; Antinociception; Tail flick (Tortorici, V. (725) 106)

Morphine; Withdrawal syndrome; Locus coeruleus; Voltammetry; Nitric oxide synthase inhibitor (Hall, S. (739) 182)

Locus coeruleus; Hyperalgesia; Inflammation (Tsuruoka, M. (743) 86)

Naltrexone
c-Fos; Morphine; Opioid; Withdrawal; Brain; Guinea-pig (Chahl, L.A. (717) 127)

Naltrexone methobromide
Maternal behavior; Opioid; Mesolimbic; Ventral tegmental area; Morphine; Rat (Thompson, A.C. (743) 184)

Naltrexone methylbromide
Ventral tegmental area; Formalin test; Dopamine; Footshock stress; Opioid; Analgesia (Altier, N. (718) 203)

Naltrindole
Met-enkephalin; Tachykinin; Analgesia; Pain; Antinociception (Zachariou, V. (736) 305)

Action potential shortening vs. prolongation; μ-/δ-/κ- vs. ϵ-opioid receptors; β-Funaltrexamine; Nor-binaltorphimine; Dorsal root ganglion neuron (Crain, S.M. (741) 275)

NAN-190
Hippocampus; Working memory; 5-HT_{1A} receptor; Acetylcholine; Scopolamine; NMDA receptor; (±)-3-(2-Carboxypiperazin-4-yl)propyl-1-phosphonic acid (Ohno, M. (736) 180)

Circadian rhythm; Suprachiasmatic nucleus; Methamphetamine; 5-HT_{1A} receptor; Serotonin (Moriya, T. (740) 261)

Nanoparticle
Analgesia; Blood–brain barrier; Dalargin; Poly(butylcyanoacrylate); Mouse (Schröder, U. (710) 121)

1-naphthylacetyl spermine
Kindling; AMPA receptor; Calcium permeability; Anticonvulsant; Joro spider toxin (Takazawa, A. (706) 173)

Narcolepsy
Cataplexy; Dopaminergic system; Ventral tegmental area (Reid, M.S. (733) 83)

Narrow-field bistratified amacrine
Rabbit retina; Rod pathway; APB; AII; Scotopic (Jin, X.T. (708) 191)

Natriuresis
Adrenergic receptor; Water intake; Kaliuresis; Diuresis; Arterial pressure
(Kelli Pereira da Silva, R. (717) 38)

NBQX
N-Methyl-D-aspartate; Synaptic response; Retinal ganglion; KA/AMPA receptor (Yu, W. (709) 184)

AMPA; *N*-Methyl-D-aspartate; AP-7; Microinjection; Phrenic nerve (Chitravanshi, V.C. (715) 104)

GluR6; Kainate; SYM2081; Toxicity (Carver, J.M. (720) 69)

In situ hybridization; MK-801; Permanent MCAO; GFAP; SGP-2; Clusterin (Yamashita, K. (735) 285)

N20.1 cell line
Glial cell; Potassium; Na/K pump; Oligodendrocyte; Patch clamp; Potassium homeostasis (Dobretsov, M. (724) 103)

2(*N*)-Dimethyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline (*N*-methyl-(*R*)-salsolinol)
1(*R*); Animal model; Parkinson's disease; Dopamine; Tyrosine hydroxylase; 6,7-Dihydroxyisoquinolinium ion (Naoi, M. (709) 285)

2nd messenger
PAG neuron; Glycine; Cl^- response; Enkephalin; PKA (Min, B.I. (734) 72)

Necrosis
Granule neuron; Glutamate toxicity; Free radical; Neuroprotection; Enzyme inhibitor; Antioxidant; Apoptosis (Ciani, E. (728) 1)

Alzheimer's disease; β-Amyloid; Apoptosis; Neurotoxicity; DNA laddering (Li, Y.-P. (738) 196)

Negative slope resistance
P70; Anti-P70 antibody; Potassium current; Bursting activity; *Euhadra* neuron (Onozuka, M. (716) 187)

Neglect
Globus pallidus; Glutamate; Striatum; Fos; Recovery; Frontal cortex; Medial agranular cortex; Dopamine; Amphetamine; Immediate early gene (Vargo, J.M. (716) 207)

Neocortex
192 IgG-saporin; Cholinergic hypothesis; Hippocampus; Immunotoxin; Non-spatial memory (Vnek, N. (710) 265)

Colchicine; Dentate gyrus; Hippocampus; Olfaction (Heale, V.R. (712) 213)

$GABA_B$ receptor; Progesterone; Steroid hormone; Female rat (Al-Dahan, M.I. (727) 40)

Microgyria; [^{3}H]Thymidine; Bromodeoxyuridine; S-phase marker; Corticogenesis (Rosen, G.D. (727) 71)

Electrocorticogram; Low voltage fast activity; Serotonin (5-HT); 5-HT agonist; 5-HT receptor (Dringenberg, H.C. (728) 181)

Neonatal 6-hydroxydopamine
Fixed-ratio discrimination learning; Striatal catecholamine; Cortical catecholamine; Dopaminergic neuronal plasticity; Operant training (Stodgell, C.J. (713) 246)

Neonatal hypoxia
Glutamate; Glutamine; Glutamine synthetase; Brain (Krajnc, D. (707) 134)

Neonate
Blood pressure; Immediate-early response gene; Functional activity; Gene induction; Autonomic nervous system; Catecholamine (Ruggiero, D.A. (706) 199)

Transplant; Dopamine; Sensitization; Conditioning; Priming (Abrous, D.N. (708) 21)

Brain injury; Hypoxia; Ischemia; Development; Therapy; Hypocalcemia (Sola, A. (741) 294)

Neostriatum
Excitotoxicity; Hippocampus; Infrared videomicroscopy; Kainate; *N*-Methyl-D-aspartate; Suprachiasmatic nucleus (Colwell, C.S. (724) 205)

Apomorphine; Excitotoxicity; Kainate; *N*-Methyl-D-aspartate; Metabotropic glutamate receptor; Quinolinic acid (Colwell, C.S. (726) 223)

Acetylcholine; Hybridization, in situ; Muscarinic receptor; Suicide transport; Volkensin (Harrison, M.B. (734) 323)

GABA release; Dopamine; 6-Hydroxydopamine; Brain slice; Parkinson's disease (Harsing Jr, L.G. (738) 142)

Kainic acid; Substance P; Neurokinin; Neuroprotection; Rat; Choline acetyltransferase activity; Acetylcholinesterase (Calvo, N. (740) 323)

Nerve block
Glutamate receptor; Synaptic transmission; Neural plasticity; Visual cortex; Sensory deprivation (Yoshimura, H. (733) 108)

Nerve cell
Hyaluronan receptor; Brain; Plasticity (Fuxe, K. (736) 329)

Nerve cell culture
Neurite sprouting; HPC-1; Syntaxin; Antisense oligonucleotide; Dorsal root ganglion neuron; Retinal ganglion cell (Yamaguchi, K. (740) 185)

Nerve fiber
Axon; Tooth germ; Tooth pulp; Neuropeptide; Teleost; Immunohistochemistry (Tuisku, F. (729) 137)

Nerve grafting
Axonal regeneration; Respiratory neuron; Peripheral nerve graft; Electrophysiology; Rat; Schwann cell; Spinal cord; Wallerian degeneration (Decherchi, P. (726) 181)

Nerve growth factor
Amblyopia; Critical period; Hooded rat; Monocular deprivation; Visual evoked response (Yan, H.Q. (706) 318)

Circumvallate papilla; Transgenic mouse; Protein gene product 9.5; Tyrosine hydroxylase; Aging (Takami, S. (707) 303)

Varicosity; PC12 cell; Exocytosis; Differentiation; Amperometric detection; Microelectrode (Zerby, S.E. (712) 1)

Sleep; Cholinergic basal forebrain; EEG power spectrum; 192 IgG-saporin; Rat (Kapás, L. (712) 53)

Tetrahydrobiopterin; Epidermal growth factor; Interferon-γ; Tyrosine hydroxylase; Guanosine triphosphate cyclohydrolase; Sphingosine; Cyclic adenosine monophosphate; Pheochromocytoma cell (Anastasiadis, P.Z. (713) 125)

Cytokine; Interleukin-6; Traumatic brain injury; Astrocyte; Human (Kossmann, T. (713) 143)

Neurotrophin; 1-Methyl-4-phenylpyridinium; Mitochondrion; Parkinson's disease (Kirschner, P.B. (713) 178)

Focal cerebral ischemia; Middle cerebral artery; Immunohistochemistry; Rat (Lee, T.-H. (713) 199)

Clenbuterol; Hippocampal culture; Excitotoxicity; Glutamate; Protection; Cerebral ischemia (Semkova, I. (717) 44)

Sprouting; Sympathetic; Hippocampus; Septal lesion; Section culture; Basal forebrain; Rat (Tian, X. (725) 111)

Hippocampus; Pellet; Association; Enzyme-linked immunosorbent assay; Rat brain (Hoener, M.C. (728) 47)

Regeneration; Cholinergic; Blood-brain barrier; Excitotoxicity; Nucleus basalis (Charles, V. (728) 193)

Intracellular-free calcium; Neurotrophin; Septohippocampal; Indo-1; Ethanol neurotoxicity (Webb, B. (729) 176)

PC12 cell; Cocaine; Neuronal differentiation; Benzoylecgonine; Ecgonine methyl ester; Local anesthetic (Zachor, D.A. (729) 270)

PC12D cell; Neurite; Growth cone; Ruffle (Sano, M. (730) 212)

Visual cortex; GAP-43; Synaptophysin; Plasticity; Neurotrophin (Liu, Y. (732) 36)

Brain-derived neurotrophic factor; TrkB receptor; Cortex; Protein kinase C; cyclic AMP (Barnea, A. (732) 52)

Brain-derived neurotrophic factor; Neurotrophin-3; PC2; Epileptiform activity; Co-regulation; Co-localization; In situ hybridization (Meyer, A. (732) 121)

Cortical neuron; PC12; Serum deprivation; Programmed cell death; Reactive oxygen species (Satoh, T. (733) 9)

Oxygen radical; Depolarization; Neuronal death; Chromatin condensation (Kubo, T. (733) 175)

Neuronatin; PC12; Development; Brain (Joseph, R. (738) 32)

PC12; L-Cysteine; L-Cystine (Pan, Z. (740) 21)

Capsaicin; Neuropeptide; Primary afferent fiber; Neuroregeneration; Rat (Donnerer, J. (741) 103)

Trichostatin A; PC12D cell; Neurite; Fibroblast growth factor (Sano, M. (742) 195)

Nerve growth factor binding study
Fetal alcohol syndrome; Neurotrophin; Nerve growth factor receptor; Cell culture; PC12; Immunoprecipitation; Northern blot analysis (Luo, J. (737) 34)

Nerve growth factor receptor
Preprotachykinin; mRNA; Dorsal root ganglia; Peripheral inflammation; Pain; In situ hybridization (Cho, H.-J. (716) 197)

Fetal alcohol syndrome; Neurotrophin; Cell culture; PC12; Nerve growth factor binding study; Immunoprecipitation; Northern blot analysis (Luo, J. (737) 34)

Nerve injury
Galanin; Neuropeptide Y; Pain; Plasticity (Rydh-Rinder, M. (707) 180)

Parvalbumin; Calbindin D28k; Trigeminal ganglion; Neuropeptide Y (Wakisaka, S. (707) 228)

Inferior alveolar nerve; Neuropeptide Y; Ruffini ending; Periodontal ligament; Mechanoreceptor; Rat (Wakisaka, S. (712) 11)

CGRP; Plasticity; Sensory neuron; Somatostatin (Ji, R.-R. (721) 167)

Mechanoreceptor; Periodontal ligament; Neuropeptide Y; Regeneration; Ruffini ending; Inferior alveolar nerve; Immunoelectron microscopy (Wakisaka, S. (729) 259)

Neuropeptide Y; Mesencephalic trigeminal nucleus; Masseteric nerve; Calcium-binding protein (parvalbumin, calbindin D28k) (Wakisaka, S. (735) 249)

Neuropeptide; Hyperalgesia; Spinal cord; Pain; Neuropathic; Model; Rat; Chronic constriction injury (Munglani, R. (743) 102)

Nerve repair
Degeneration; Peripheral nerve; Regeneration; Transplantation; Rat (Gulati, A.K. (742) 265)

Nervous system, insect
Neuropeptide; Tachykinin; Radioimmunoassay; High performance liquid chromatography; Brain; Intestine (Muren, J.E. (739) 314)

Nestin
Rat embryo; Whole embryo culture; Neural tube; Neuroepithelial cell; Cell shape; Neurogenesis (Matsuda, M. (723) 177)

Neural activity
Exercise; Physical activity; Neurotrophin; Environmental stimulus; Gene expression; Brain plasticity (Neeper, S.A. (726) 49)

Neural circuitry
Visual cortex; Voltage-sensitive dye; Cooled CCD camera; Optical imaging (Tanifuji, M. (738) 83)

Neural crest
Differentiation; Synaptogenesis; Tyrosine hydroxylase; *N*-Methyl-D-aspartate; Glutamate; Receptor; Gut (Burns, G.A. (718) 117)

Neural development
Cell division; Endogenous opioid system; μ-Opioid receptor; Intracellular calcium; Dantrolene; Nifedipine; Thapsigargin; Fura-2 (Hauser, K.F. (720) 191)

Cell division; Endogenous opioid system; PL017; μ Opioid receptor immunocytochemistry; Drug abuse (Knapp, P.E. (743) 341)

Neural excitability
CO_2 partial pressure; Extracellular pH; Intracellular pH; Respiratory alkalosis (Lee, J. (706) 210)

Neural model
Auditory sensory memory; Passive attention; Sensory inference; Event-related potential (ERP); Mismatch negativity (MMN) (Winkler, I. (742) 239)

Neural pathway
Calcium; Calcium channel; Immunoblotting; Immunochemistry; Retina (Micci, M.A. (720) 139)

Neural plasticity
Glutamate receptor; Synaptic transmission; Visual cortex; Nerve block; Sensory deprivation (Yoshimura, H. (733) 108)

Seasonal; Androgen; Songbird (Smith, G.T. (734) 79)

Neural restrictive silencer element
Neuronatin; Chromosome 20; Development; Proteolipid protein; Brain; Phospholamban; PMP1; Cation channel; ATPase (Dou, D. (723) 8)

Neural retina
Development; Ganglion cell; Rod photoreceptor; bFGF; Retinoic acid; Opsin; Tissue culture (Zhao, S. (723) 169)

Neural transplantation
Dopamine; Locomotion; Treadmill; Striatum; 6-Hydroxydopamine; Dynamic regulation; In vivo microdialysis (Hattori, S. (710) 45)

Methylprednisolone; Cyclosporin A; Xenograft; Immunology; Inflammation; Cytokine; Brain; Rat (Duan, W.-M. (712) 199)

Neural tube
Rat embryo; Whole embryo culture; Nestin; Neuroepithelial cell; Cell shape; Neurogenesis (Matsuda, M. (723) 177)

Neurite
Nerve growth factor; PC12D cell; Growth cone; Ruffle (Sano, M. (730) 212)

Trichostatin A; PC12D cell; Nerve growth factor; Fibroblast growth factor (Sano, M. (742) 195)

Neurite branching
Cytokine; Neurite elongation; Regeneration (Sarder, M. (715) 9)

Neurite development
Embryogenesis; Renin-angiotensin system (Moeller, I. (725) 61)

Neurite elongation
Cytokine; Regeneration; Neurite branching (Sarder, M. (715) 9)

Neurite outgrowth
Development; Retina; Tissue culture; Regenerative failure (Bates, C.A. (714) 65)

Calcium; Calpain; Dorsal root ganglia; Suramin; Neurotoxicity (Sun, X. (742) 149)

Neurite outgrowth inhibition
Human; Myelin; Central nervous system (Ng, W.P. (720) 17)

Neurite-promoting factor
α_2-Macroglobulin; α_2-Macroglobulin receptor; Cerebral cortex; Neuron (Ishii, M. (737) 269)

Neurite regeneration
Transforming growth factor-β1; Cultured hippocampal neuron (Abe, K. (723) 206)

Neurite sprouting
Nerve cell culture; HPC-1; Syntaxin; Antisense oligonucleotide; Dorsal root ganglion neuron; Retinal ganglion cell (Yamaguchi, K. (740) 185)

Neuritic plaque
Brain spectrin; Fodrin; Membrane cytoskeleton; Alzheimer's disease; Amyloid plaque; Neurodegeneration (Sihag, R.K. (743) 249)

Neuroanatomical study
Fluoro-Green; Fluoro-Red; Retrograde fluorescent tracer; Double-labeling (Dong, K. (736) 61)

Neuroanatomy
Cholecystokinin; Receptor subtype; Autoradiography; Cortex; Monkey (Mercer, L.D. (738) 313)

Neurobiotin
Horseradish peroxidase; Proprioception; Primary afferent; Rat (Luo, P. (710) 260)

Respiration; Bötzinger neuron; Intracellular recording; Immunohistochemistry; Thyrotropin releasing hormone (Sun, Q.-J. (715) 136)

Cingulate cortex; Nociceptive specific neuron; Morphology; Intracellular recording (Yamamura, H. (735) 83)

Neuroblastoma
Na channel; Transcription; A23187 (Hirsh, J.K. (706) 343)

Patch-clamp; Sodium channel; Potassium channel; Action potential (Gu, X.Q. (735) 50)

Neuroblastoma cell line
Transforming growth factor-β; β-Amyloid peptide; Alzheimer's disease; Neuroprotection; Primary hippocampal neuron (Ren, R.F. (732) 16)

Adenylyl cyclase; Ca^{2+}/calmodulin-stimulation; Reverse transciption-polymerase chain reaction; Western blot (Kluxen, F.-W. (740) 169)

Neurocalcin
Calcium-binding protein; Alzheimer's disease; Brain; Synapse; Synaptophysin (Shimohama, S. (716) 233)

Accessory olfactory system; Calcium-binding protein; Immunohistochemistry; Rat; Vomeronasal organ (Porteros, A. (729) 82)

Neurochemistry
Eye enucleation; Plasticity; Transneuronal degeneration (Lane, R.D. (740) 208)

Neurodegeneration
Neuronal culture; Oxydative stress; Calbindin D_{28K} (Hugon, J. (707) 288)

Superoxide dismutase; Oxygen free radical; Ischemia; Excitotoxicity; Huntington's disease; Basal ganglia (Medina, L. (708) 59)

Glutathione reductase; Peroxynitrite; Oxidative stress (Barker, J.E. (716) 118)

Aminoguanidine; Blood-brain barrier; Blood-cerebrospinal fluid barrier; Meningitis; Nitric oxide; Nitric oxide synthase; Neuroinflammation (Boje, K.M.K. (720) 75)

Kainic acid; Purine; Adenosine; Neuroprotection (MacGregor, D.G. (725) 115)

N-Methyl-D-aspartate; Quinolinic acid; Excitotoxicity; Apoptosis; DNA fragmentation; Huntington's disease (Qin, Z.-H. (725) 166)

Reduction potential; Electron affinity; Rat brain microsomes; Redox cycling of xenobiotics; Superoxide radical; NADPH-cytochrome *P*-450 reductase; Quinone; Nitroheterocycle; Bipyridinium; Brain ageing (Livertoux, M.-H. (725) 207)

Kainic acid; Ascorbic acid; Vitamin C; Allopurinol; Free radical; Neuroprotection (MacGregor, D.G. (727) 133)

Microglia; Senile plaque; Dementia; Lipoprotein associated coagulation inhibitor; Proteinase inhibitor (Hollister, R.D. (728) 13)

Brain spectrin; Fodrin; Membrane cytoskeleton; Alzheimer's disease; Neuritic plaque; Amyloid plaque (Sihag, R.K. (743) 249)

Neurodegenerative disease
Calcium-binding protein; Basal ganglia; Immunohistochemistry; Squirrel monkey; *Saimiri sciureus* (Fortin, M. (708) 201)

Excitatory amino acid; NMDA; Receptor; Immunocytochemistry; Striatum (Chen, Q. (743) 346)

Neurodegenerative disorder
Huntington's chorea; Calcium-binding protein; Neurokinin receptor; Basal ganglia; Striatum (Cicchetti, F. (730) 232)

Neuroendocrine
Arousal; Light reflectance; Optical imaging; Sleep; Paraventricular hypothalamus; PVH; PVN; REM; Waking; Slow wave (Kristensen, M.P. (727) 107)

Neuroendocrine function
Nitric oxide; Pregnancy; Nitric oxide synthase (Woodside, B. (739) 339)

Neuroendocrinology
Hypothalamo-hypophysial; Osmoregulation; Neurohypophysis; Fluid balance (Vanhatalo, S. (740) 253)

WKHA rat; Inbred rat strain; Stress; Locomotor activity; Anxiety; Factor analysis; F2 intercross (Courvoisier, H. (743) 77)

Neuroepithelial cell
Rat embryo; Whole embryo culture; Nestin; Neural tube; Cell shape; Neurogenesis (Matsuda, M. (723) 177)

Neurofibrillary degeneration
Tau; Human neuroblastoma culture; Alzheimer's disease; Paired helical filament; Phosphorylation (Ko, L.-w. (707) 256)

Neurofibrillary degeneration and phosphorylation sequence
Quantitative image analysis; Al maltolate; Rabbit (Savory, J. (707) 272)

Neurofibrillary pathology
Alzheimer disease; Crosslink; Glycation; Paired helical filament; Solubility (Smith, M.A. (717) 99)

Neurofibrillary tangle
Protein phosphatase; τ Protein; Dephosphorylation; Schizophrenia; Alzheimer's disease (Gong, C.-X. (741) 95)

Constructional apraxia; Praxis; Dystrophic neurite; AT8; β-Amyloid; Occipital cortex; Parietal lobe (Nielson, K.A. (741) 284)

Neurofilament
Axonal transport; Dorsal root ganglia; 3,3′-Iminodipropionitrile; Myelinated perikarya; Neurotoxicity; Proximal axonopathy; Vestibular ganglia (Llorens, J. (717) 118)

Axonal injury; Axotomy; Traumatic brain injury; Cytoskeleton; Microtubule; Mitochondrion; Membrane (Pettus, E.H. (722) 1)

IMR-32; Cell culture; SMI31; Oxidative stress; Ascorbate (Cookson, M.R. (738) 162)

Dystrophic neurite; Paired helical filament; Hyper-phosphorylation; Senile plaque; Neuropathology; Alzheimer's disease (Su, J.H. (739) 79)

Neurofilament protein
Picrotoxin; Immunohistochemistry; Calcium-binding protein; Fos (Hiscock, J.J. (738) 301)

Neurogenesis
Rat development; Gene expression; NGF-induced gene; Hybridization, in situ (Iacopetti, P. (707) 293)

Rat embryo; Whole embryo culture; Nestin; Neural tube; Neuroepithelial cell; Cell shape (Matsuda, M. (723) 177)

Superior cervical ganglion; Development; Neurotrophin; Neurotropic; Transgenic mouse (Davis, B.M. (724) 47)

Neuroglia
Astrocyte; Alcohol; DNA synthesis; Brain atrophy; Microencephaly; Alcoholism; Fetal alcohol syndrome (Kane, C.J.M. (731) 39)

Opioid receptor; Cell division; Central nervous system maturation; Drug abuse; Endogenous opioid system; U69593; U50488H; *Nor*-binaltorphimine; Fura-2; Intracellular calcium; Nifedipine; Thapsigargin (Gurwell, J.A. (737) 175)

Neuro-glia interaction
Mutant mouse; S-100β; Serotonin; $5\text{-}HT_{1A}$; Transplantation; Immunocytochemistry (Ueda, S. (738) 15)

Neuroglial cell
Apoptosis; DNA fragmentation; Olidodendroglial cell; Terminal transferase; Lectin histochemistry; Hypomyelination (Vela, J.M. (712) 134)

Neurohypophysis
Neuroendocrinology; Hypothalamo-hypophysial; Osmoregulation; Fluid balance (Vanhatalo, S. (740) 253)

Neuroimmunology
Thymulin; Endotoxin; Hyperalgesia; Inflammation (Safieh-Garabedian, B. (717) 179)

Neuroimmunomodulation
Circadian rhythm; Sympathetic nervous system; Parasympathetic nervous system; Submaxillary lymph node; Ornithine decarboxylase; Norepinephrine synthesis; Norepinephrine uptake; Choline uptake; Acetylcholine synthesis; Superior cervical ganglion; Chorda tympani (Cardinali, D.P. (711) 153)

Preoptic area; Anterior hypothalamus; Brain microdialysis, in vivo; Endotoxin; Body temperature; Prostaglandin E_2; Cytokine (Sehic, E. (726) 160)

Neuroinflammation
Aminoguanidine; Blood-brain barrier; Blood-cerebrospinal fluid barrier; Meningitis; Nitric oxide; Nitric oxide synthase; Neurodegeneration (Boje, K.M.K. (720) 75)

Neurokinin-1
Substance P; Striatum; Parotid; Submaxillary; Immunocytochemistry; Receptor autoradiography; Tachykinin; Receptor heterogeneity; G-Protein coupled receptor (Mantyh, P.W. (719) 8)

Neurokinin
Kainic acid; Substance P; Neostriatum; Neuroprotection; Rat; Choline acetyltransferase activity; Acetylcholinesterase (Calvo, N. (740) 323)

Neurokinin B
Nucleus tractus solitarii; Dorsal nucleus of the vagus nerve; Area postrema; Synapse (Carpentier, C. (734) 327)

Neurokinin receptor
Neurodegenerative disorder; Huntington's chorea; Calcium-binding protein; Basal ganglia; Striatum (Cicchetti, F. (730) 232)

Tachykinin; Nociception; Hyperalgesia; Inflammation; Substance P; Flexion reflex; Spinal cord hyperexcitability (Parsons, A.M. (739) 263)

Neurokinins
Capsaicin; III group afferent; IV group afferent; Muscle ergoceptor; Muscle nociceptor; Dorsal root; Ventral root; Oculomotor nerve (Della Torre, G. (713) 223)

Neuroleptic
Dendritic release; Autoreceptor; Midbrain; Morphology (Pucak, M.L. (713) 44)

Neuroleptic drug
Oxidative stress; Antioxidant enzyme; Cytotoxicity; PC12 (Behl, C. (717) 193)

Haloperidol; *bcl-2*; Oxidative stress; Cell death; HT22 cell (Lezoualc'h, F. (738) 176)

Neuroleptic malignant syndrome
Haloperidol; Atropine; Dantrolene sodium; Forced hyperthermia; Creatine phosphokinase; Muscle rigidity; Set-point (Tanii, H. (743) 263)

Neurological examination
Permanent focal cerebral ischemia; Middle cerebral artery occlusion; MCA-O; Wistar Kyoto rat; Brain; Behavior (Van der Staay, F.J. (715) 180)

Neurological mutant mouse
Rolling mouse Nagoya; Basal ganglia; Preproenkephalin mRNA; Preprotachykinin mRNA; Dopamine D_2 receptor binding assay (Taniwaki, T. (714) 231)

Neuromagnetism
Human thalamus; Evoked response; Median nerve stimulation; Functional imaging; Magnetic resonance imaging (Tesche, C.D. (729) 253)

Neuromelanin
Receptor autoradiography; [^{125}I]*p*-Iodoclonidine; Noradrenergic neuron; Morphometry (Klimek, V. (741) 263)

Neuromodulation
Angiotensin; Calcium current; Cell culture; Retina; Retinal ganglion cells (Guenther, E. (718) 112)

Neuromodulator
Interferon; Neuronal activity (Dafny, N. (734) 269)

Neuromodulin
Chemoshock; Protein kinase C γ; Hippocampus (Chen, C.-C. (725) 75)

Neuromorphological plasticity
Axonal sprouting; Entorhinal cortex; Hippocampus; Mutant mouse; Septum (Shi, B. (740) 89)

Neuromuscular
Phosphorylation; Tyrosine; Phosphatase; Denervation; Synapse; Synaptogenesis (Tanowitz, M. (712) 299)

Neuromuscular junction
Neuronal bungarotoxin; Spinal cord; Apoptosis; Motoneuron death; α-Bungarotoxin (Renshaw, G.M.C. (709) 316)

Transmitter release; MEPPs; Dynamics (Kriebel, M.E. (729) 228)

Synaptic transmission; Nitric oxide; Cholinergic transmission; Skeletal muscle; Ocular muscle; Acetylcholine receptor (Kusner, L.L. (730) 238)

Neuromuscular transmission
Quinine; Quinidine; Chloroquine; Transmitter release; Acetylcholine receptor; Channel block; Patch-clamp analysis (Sieb, J.P. (712) 179)

Patch-clamp analysis; Acetylcholine receptor; Channel block; Catecholamine (Milone, M. (740) 346)

Neuron
Suprachiasmatic nucleus; Gap junction; Astrocyte; Cell culture; Circadian rhythm (Welsh, D.K. (706) 30)

Hippocampal cholinergic neurostimulating peptide; HCNP localization; Immunohistochemistry; Central nervous system; Oligodendroglia (Mitake, S. (706) 57)

Kindling; Audiogenic seizure; Inferior colliculus; Genetically epilepsy-prone rat (N'Gouemo, P. (710) 92)

Apoptosis; Glial cell; Development; Immunohistochemistry; Western blotting (Mizuguchi, M. (712) 281)

Ganglioside; Immunocytochemistry; Monoclonal antibody; Differential marker (Kawashima, I. (732) 75)

Somatic cell fusion; Dorsal root ganglia; Hybridoma; Emetine; Actinomycin D (Hikawa, N. (734) 345)

Immunohistochemistry; Nuclear factor-κB; Alzheimer's disease; Human brain; Hippocampal formation; Cerebral cortex (Terai, K. (735) 159)

α_2-Macroglobulin; α_2-Macroglobulin receptor; Neurite-promoting factor; Cerebral cortex (Ishii, M. (737) 269)

Heat shock 70 gene expression; Tissue culture; Hybridization, in situ; Immunohistochemistry; Rat cerebellum; Microglia; Astrocyte (Voisin, P.J. (739) 215)

Neuronal acetylcholine receptor
Neuroprotection; Glutamate; ABT-418; Calcium channel activator; Cholinergic channel activator (Donnelly-Roberts, D.L. (719) 36)

Neuronal activity
Satellite glial cell; Potassium current; Patch-clamp; Tetrodotoxin; Reserpine (Konishi, T. (708) 7)

Cortex; Right temporal lobe; Visuospatial memory (Holmes, M.D. (711) 44)

Basal ganglia; Movement disorder (Ebert, U. (728) 125)

Interferon; Neuromodulator (Dafny, N. (734) 269)

Thalamus; Motor control; Kinematics (Butler, E.G. (736) 146)

Neuronal bungarotoxin
Neuromuscular junction; Spinal cord; Apoptosis; Motoneuron death; α-Bungarotoxin (Renshaw, G.M.C. (709) 316)

Neuronal cell death
IGF; IGF analog; Insulin; Calcium (Harper, S.J. (709) 303)

Neuronal circuitry
Interneuron; Calcium-binding protein; Parvalbumin; Immunocytochemistry; Cingulate cortex (Kalus, P. (729) 45)

Neuronal culture
Oxydative stress; Calbindin D_{28K}; Neurodegeneration (Hugon, J. (707) 288)

Noradrenaline release; Calcium influx; Microfluorimetry (Doležal, V. (721) 101)

Adenosine; Ischemic injury; Ischemia-reperfusion damage; Ischemic tolerance; Preconditioning; N^6-(R)-phenylisopropyladenosine (R-PIA); 8-Sulphophenyl theophylline (SPT) (Reshef, A. (741) 252)

Neuronal cytotoxicity
Na^+/K^+-ATPase inhibitor; Ouabain; Excitotoxin; Glutamate receptor agonist; Glutamate receptor antagonist (Lees, G.J. (714) 145)

Inositol hexakisphosphate; Phytate; Zinc; Calcium; Hippocampus; Acetylcholinesterase (Lees, G.J. (741) 134)

Neuronal damage
Ischemia; Gerbil; Recovery of function; Felbamate (Shuaib, A. (727) 65)

Progesterone; Cerebral ischemia; Rat (Jiang, N. (735) 101)

Neuronal death
Cerebral ischemia; Hippocampus; Learning; Memory; LY231617; Angiotensin IV; Circular water maze; Passive avoidance conditioning; Rat (Wright, J.W. (717) 1)

CA1; Carbon monoxide; Gene expression; Heme; Hippocampus; Hypoxia; Ischemia; Ischemic tolerance; Neuroprotection; Protein synthesis; Stroke (Gage, A.T. (719) 172)

Excitatory amino acid; Flow cytometry; Intracellular Ca^{2+} (Oyama, Y. (728) 121)

Oxygen radical; Nerve growth factor; Depolarization; Chromatin condensation (Kubo, T. (733) 175)

Neuronal degeneration
Protein malnutrition; Hippocampus; Mossy fiber-CA3 synapse; Stereology; Rat (Andrade, J.P. (718) 1)

Neuronal development
Adrenal steroids; Glucocorticoids; Heme oxygenase; Carbon monoxide; Postnatal gene expression (Maines, M.D. (722) 83)

Ethanol; Central nervous system neuron; Fura-2; Glutamate receptor; Intracellular calcium; Fetal alcohol syndrome (Gruol, D.L. (728) 166)

Neuronal differentiation
Steroid receptor; RT-PCR (Beaman-Hall, C.M. (726) 141)

PC12 cell; Nerve growth factor; Cocaine; Benzoylecgonine; Ecgonine methyl ester; Local anesthetic (Zachor, D.A. (729) 270)

Neuronal firing
Ethanol withdrawal; γ-Aminobutyric acid; Desensitization; Clonic seizure; Inferior colliculus (N'Gouemo, P. (724) 200)

Neuronal injury
Status epilepticus; Glutamate; Excitotoxicity; Heat shock protein; Cell injury (Tanaka, K. (737) 59)

Neuronal map
Gastropod; Immunocytochemistry; Opioid peptide; Identified neuron; High-performance liquid chromatography; Radioimmunoassay; Heart (Ewadinger, N.M. (737) 1)

Neuronal migration
Autoimmunity; Cortex; Cortical development; Dyslexia; Enriched environment; Ectopia; Hebb-Williams maze; Lashley maze; Morris maze; Reference memory (Boehm, G.W. (726) 11)

Transgenic insertion mutation; Cortical ectopia; Mouse; *Perinatal lethality*; Microgyria; Dysgenesis; Cerebral cortex (Beier, D.R. (727) 196)

Neuronal nicotinic receptor
Electrophysiology; Nicotine; Acetylcholine; Chick central nervous system; Brain slice (Weaver, W.R. (725) 95)

Neuronal nitric oxide synthase
Retrograde tracing; Fluoro-Gold; Immunohistochemistry; Immunoelectron microscopy; Basilar artery (Kadota, O. (706) 129)

7-Nitroindazole; Trigeminal pathway; Autoradiography; [^{14}C]iodoantipyrine; Somatosensory activation; α-Chloralose (Cholet, N. (708) 197)

Neuronal plasticity
Domestic chick; Passive-avoidance learning; NMDA receptor; Learning (Bradley, P.M. (708) 100)

GAP-43; Quantitative immunohistochemistry; Aging; Hippocampus; Cerebellum; Olfactory bulb; Cingulate cortex (Casoli, T. (714) 111)

Olfactory system; 2-Deoxyglucose; c-*fos*; Noradrenaline; Acetylcholine (Sallaz, M. (721) 66)

Neuronatin
Chromosome 20; Development; Proteolipid protein; Brain; Phospholamban; PMP1; Cation channel; ATPase; Neural restrictive silencer element (Dou, D. (723) 8)

PC12; Nerve growth factor; Development; Brain (Joseph, R. (738) 32)

Neuron death
Acidosis; Metabolism; Cortex; Hippocampus; Hypoxia ischemia; NMDA receptor; Microphysiometry (Trafton, J. (731) 122)

Neuron–glia cell adhesion molecule
Myelin associated glycoprotein; Myelin basic protein; Development; Lateral superior olive; Auditory; MAG; MBP; L1 (Hafidi, A. (736) 35)

Neuron–glia interaction
Astrocyte; Glia; Opioid peptide; Glucocorticoid; Cyclic AMP; Preproenkephalin (McMillian, M.K. (730) 67)

Neuron polarity
Melanocortin; Corticospinal tract; Cortex; Cell culture; Axon; Dendrite; Trophic factor (Joosten, E.A.J. (736) 91)

Neuron-specific protein
PNP 14; Phosphoneuroprotein; Brain-specific protein; Enzyme immunoassay (Nakajo, S. (741) 180)

Neuron survival
Choline acetyltransferase; Facial nucleus; Motoneuron; Cell death; Regeneration (Gilad, V.H. (724) 141)

Neuropathic
Neuropeptide; Hyperalgesia; Spinal cord; Pain; Model; Rat; Nerve injury; Chronic constriction injury (Munglani, R. (743) 102)

Neuropathic pain
Autotomy; Mouse; Spinal cord (Defrin, R. (711) 241)

Analgesia; Allodynia; Capsaicin; C-fiber; Cold; Hyperalgesia; Mechanical stimulation; Spinal cord injury (Hao, J.-X. (722) 177)

Allodynia; α_2-Adrenoceptor agonist; Central pain; Clonidine; Intrathecal; Sedation; Spinal cord (Hao, J.-X. (736) 28)

Neuropathology
N-Methyl-D-aspartate antagonist; Dizocilipine maleate; MK-801; Cingulate cortex; Neurotoxicity; Spatial learning and memory; Sensorimotor; Activity; Mouse (Wozniak, D.F. (707) 165)

Seizure; Calpain; Spectrin; Glutamate; Hippocampus (Bi, X. (726) 98)

Dystrophic neurite; Paired helical filament; Neurofilament; Hyper-phosphorylation; Senile plaque; Alzheimer's disease (Su, J.H. (739) 79)

Neuropathy
Peripheral nerve; Ischemia; Intracellular pH; Intracellular Ca^{2+}; Fluorescent dye (Wächtler, J. (725) 30)

Hyperalgesia; Monoamine; Glycine; γ-Aminobutyric acid; Pain; Spinal cord (Satoh, O. (728) 27)

Neuropeptide
Activity; Receptor antagonist; Behavior; Microdialysis (Robinson, J.K. (709) 81)

Vomeronasal organ; Trigeminal ganglion; Sphenopalatine ganglion; Nitric oxide synthase; Coexistence; Dual band filter; Mouse (Matsuda, H. (712) 35)

Neurotensin; Dopamine; Extrapyramidal; Limbic; Antipsychotic; Microdialysis (Wagstaff, J.D. (721) 196)

Nerve fiber; Axon; Tooth germ; Tooth pulp; Teleost; Immunohistochemistry (Tuisku, F. (729) 137)

Anxiety; Fear; Locomotor activity; Amygdala; Fear-potentiated startle; Rat (Frankland, P.W. (733) 129)

Tachykinin; Radioimmunoassay; High performance liquid chromatography; Nervous system, insect; Brain; Intestine (Muren, J.E. (739) 314)

Galanin; Galanin receptor; Baroreceptor reflex; Blood pressure; Cardiovascular; Brain; Galanin-(1-15) (Díaz, Z. (741) 32)

Nerve growth factor; Capsaicin; Primary afferent fiber; Neuroregeneration; Rat (Donnerer, J. (741) 103)

Hyperalgesia; Spinal cord; Pain; Neuropathic; Model; Rat; Nerve injury; Chronic constriction injury (Munglani, R. (743) 102)

Neuropeptide FF
Receptor; Nucleus tractus solitarius; Cardiovascular parameter; Baroreceptor reflex (Laguzzi, R. (711) 193)

Neuropeptide Y
Methamphetamine; Noradrenaline; Paraventricular nucleus (Yoshihara, T. (707) 119)

Galanin; Nerve injury; Pain; Plasticity (Rydh-Rinder, M. (707) 180)

Parvalbumin; Calbindin D28k; Trigeminal ganglion; Nerve injury (Wakisaka, S. (707) 228)

mRNA; Arcuate nucleus; Gold thioglucose; Ventromedial nucleus; Food deprivation (Bergen, H.T. (707) 266)

5-HT receptors; Paraventricular nucleus of the hypothalamus; Corticotropin releasing factor; Feeding (Grignaschi, G. (708) 173)

Nerve injury; Inferior alveolar nerve; Ruffini ending; Periodontal ligament; Mechanoreceptor; Rat (Wakisaka, S. (712) 11)

Electroconvulsive seizure; Electroconvulsive stimulation; c-*fos*; Somatostatin; Dentate gyrus (Woldbye, D.P.D. (720) 111)

Neuropeptide Y receptor; Antinociception; Feeding; Opioid receptor; α_2-Adrenoceptor; Mouse (Broqua, P. (724) 25)

Suprachiasmatic nucleus; Arginine-vasopressin; Strain difference; Rat (Wollnik, F. (724) 191)

Hypothalamus; *p*-Chlorophenylalanine; Serotonin (Dryden, S. (724) 232)

Lateral geniculate nucleus; Intergeniculate leaflet; Geniculohypothalamic tract; Suprachiasmatic nucleus; Circadian rhythm; Cat (Pu, M. (725) 247)

Arousal; Corticotropin-releasing hormone; Sodium pentobarbital; Psychological stress; Locomotor activity; Sedative action (Yamada, K. (725) 272)

Cobalt protoporphyrin; Intracerebroventricular injection; Feeding; Hypothalamus (Choi, S.J. (729) 223)

Nerve injury; Mechanoreceptor; Periodontal ligament; Regeneration; Ruffini ending; Inferior alveolar nerve; Immunoelectron microscopy (Wakisaka, S. (729) 259)

8-Hydroxy-DPAT; Phase–response curve; Constant darkness; Hamster (Colecchia, E.F. (730) 227)

Hypoxia; Rat; Substance P; Radioimmunoassay; Chemoreflex (Poncet, L. (733) 64)

Mesencephalic trigeminal nucleus; Masseteric nerve; Nerve injury; Calcium-binding protein (parvalbumin, calbindin D28k) (Wakisaka, S. (735) 249)

Somatostatin; NADPH-diaphorase; Nitric oxide synthase; Co-localization; Striatum; Basal ganglia (Figueredo-Cardenas, G. (735) 317)

Hippocampal EEG seizure; Wet dog shakes; Somatostatin; Dentate gyrus; Subiculum (Woldbye, D.P.D. (737) 162)

Paraventricular nucleus; Perifornical hypothalamus; Respiratory quotient; Metabolism; Indirect calorimetry; Food intake (Currie, P.J. (737) 238)

Hippocampus; Electron microscopy; γ-Aminobutyric acid; Somatostatin (Commons, K.G. (738) 181)

Neuropeptide Y receptor
Neuropeptide Y; Antinociception; Feeding; Opioid receptor; α_2-Adrenoceptor; Mouse (Broqua, P. (724) 25)

Neurophypophysis
Paraventricular nucleus of the hypothalamus; Aortic depressor nerve; Central cardiovascular regulation; Fluid balance; Hypertension (Ciriello, J. (739) 52)

Neurophysiology
Brain; Peptide (Nagase, H. (709) 44)

Cortex; Brainstem; Chronic hypoxia; In vitro; Brain slice (O'Reilly, J.P. (711) 203)

Suprachiasmatic nuclei; Circadian system; Photic responsiveness; Entrainment; Visual system (Meijer, J.H. (741) 352)

Neuropile
Tyrosine hydroxylase; Locus coeruleus; Mouse; Perikarya; Plasticity; Immunoautoradiography; Topology (Ginovart, N. (719) 45)

Neuroplasticity
Nucleus basalis magnocellularis; Acetylcholine; Rat; Lesion; Ablation; Palmitate; Membrane; Remodeling; Alzheimer disease; Phospholipid; Phosphatidylcholine (De Micheli, E. (735) 36)

Neuroprotection
Excitotoxicity; Basic fibroblast growth factor; Arachidonic acid; Mature hippocampal neuron (Himmelseher, S. (707) 54)

Hypoxia; Hypoxic depolarization; Glutamate receptor; Penumbra (Chen, Z.-F. (708) 82)

Cerebral blood flow; Cerebral ischaemia; Excitotoxicity; Glutamate; κ-Opioid agonist; Microdialysis (MacKay, K.B. (712) 329)

Closed-head injury; Edema; Free radical; Nitroxide (Beit-Yannai, E. (717) 22)

Polyamine amide toxin; Excitotoxicity; Cerebellar granule cell; Excitatory amino acid receptor (Green, A.C. (717) 135)

Neuronal acetylcholine receptor; Glutamate; ABT-418; Calcium channel activator; Cholinergic channel activator (Donnelly-Roberts, D.L. (719) 36)

CA1; Carbon monoxide; Gene expression; Heme; Hippocampus; Hypoxia; Ischemia; Ischemic tolerance; Neuronal death; Protein synthesis; Stroke (Gage, A.T. (719) 172)

Hypoxia; Penumbra; Adenosine; Excitatory synaptic transmission; Rat; Hippocampus (Arlinghaus, L. (724) 265)

Kainic acid; Purine; Adenosine; Neurodegeneration (MacGregor, D.G. (725) 115)

Kainic acid; Ascorbic acid; Vitamin C; Allopurinol; Free radical; Neurodegeneration (MacGregor, D.G. (727) 133)

Granule neuron; Glutamate toxicity; Free radical; Enzyme inhibitor; Antioxidant; Necrosis; Apoptosis (Ciani, E. (728) 1)

Heat stress; Excitotoxicity; Gene expression; Heat shock protein; Cultured neuron (Snider, B.J. (729) 273)

Transforming growth factor-β; β-Amyloid peptide; Alzheimer's disease; Primary hippocampal neuron; Neuroblastoma cell line (Ren, R.F. (732) 16)

Poly(ADP-ribose) polymerase; Benzamide; Methamphetamine; Neurotoxicity; Striatal dopamine; C57Bl/6N mouse (Cosi, C. (735) 343)

Heat-shock; Stress protein; Survival; Antisense oligonucleotide; Cultured neuron (Sato, K. (740) 117)

Kainic acid; Substance P; Neurokinin; Neostriatum; Rat; Choline acetyltransferase activity; Acetylcholinesterase (Calvo, N. (740) 323)

Pramipexole; Nigrostriatal; Degeneration; Ischemia; Methamphetamine (Hall, E.D. (742) 80)

Cerebral ischemia; Hypoxia; Dexamethasone; Glucocorticoid; RU38486; Corticosterone; Infant (Tuor, U.I. (743) 258)

Neuropsin gene
Epilepsy; Kindling; Serine protease; Plasticity; Limbic system; Cerebral cortex (Okabe, A. (728) 116)

Neuroregeneration
Nerve growth factor; Capsaicin; Neuropeptide; Primary afferent fiber; Rat (Donnerer, J. (741) 103)

Neurosecretion
Synaptic terminal; Exocytosis (Stuenkel, E.L. (742) 129)

Neurosteroid
$GABA_A$ receptor; Patch clamp; Cortical neuron; Decreased efficacy (Yu, R. (706) 160)

Social isolation stress; Mouse; Pentobarbital sleep; Corticotropin releasing factor (CRF); Noradrenergic system (Matsumoto, K. (708) 1)

Cytochrome P45011B1; Cerebral cortex; In situ hybridization; Transgenic rat; Hypertension (Erdmann, B. (733) 73)

Acetylcholine; Dehydroepiandrosterone sulfate; Dehydroepiandrosterone; Hippocampus; Memory; Microdialysis (Rhodes, M.E. (733) 284)

5α-Reductase; Brain; Pregnancy; Prenatal development; Open-field behavior; Rodent; Finasteride (Proscar) (Lephart, E.D. (739) 356)

Neurotensin
Endopeptidase 3.4.24.16; Endopeptidase 3.4.24.15; Human brain; Pig brain; Peptide inactivation (Vincent, B. (709) 51)

Phenylethanolamine-*N*-methyltransferase; Corticotropin-releasing factor; External cuneate nucleus; Gerbil (Lan, C.-T. (711) 211)

Tyrosine hydroxylase; Double pre-embedding immunocytochemistry; Electron microscopy; Mediobasal hypothalamus; Guinea pig (Marcos, P. (715) 63)

Dopamine; Neuropeptide; Extrapyramidal; Limbic; Antipsychotic; Microdialysis (Wagstaff, J.D. (721) 196)

Microdialysis; GABA; Glycine; SR 48692; Rat (Chapman, M.A. (729) 124)

γ-Aminobutyric acid; Synapse; Rat; Double immunostaining; Preembedding; Postembedding (Wang, Q.-P. (730) 118)

Hyperalgesia; Mustard oil; Cholecystokinin; Rostral ventromedial medulla; Descending pain facilitation (Urban, M.O. (737) 83)

Serotonin; 5-Hydroxytryptophan; Stress; Brain; Rat (Dilts, R.P. (742) 294)

Neurotoxicity
β-Amyloid peptide; Alzheimer's disease; Alternation behavior; Passive avoidance; Watermaze; Amnesia model (Maurice, T. (706) 181)

HIV-1; Transgenic; *N*-Methyl-D-aspartate; Glutamate; Treatment (Toggas, S.M. (706) 303)

N-Methyl-D-aspartate antagonist; Dizocilipine maleate; MK-801; Cingulate cortex; Neuropathology; Spatial learning and memory; Sensorimotor; Activity; Mouse (Wozniak, D.F. (707) 165)

Tripeptide reduced glutathione; Astrocyte; Catabolism; Ischemia; ATP; Cysteine; Glutamate; Sodium-potassium ATPase (Juurlink, B.H.J. (710) 229)

Culture; Glutamate; *N*-Methyl-D-aspartate; Nitric oxide (NO); Retina (Kashii, S. (711) 93)

3-Nitropropionic acid; Amphetamine; Dopamine; Caudate-putamen (Bowyer, J.F. (712) 221)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); 1-Methyl-4-phenylpyridine (MPP^+); NADH-ubiquinone oxidoreductase; Succinate-ubiquinone oxidoreductase; Ubiquinol-cytochrome *c* reductase; Cytochrome *c* oxidase (Desai, V.G. (715) 1)

Axonal transport; Dorsal root ganglia; 3,3′-Iminodipropionitrile; Myelinated perikarya; Neurofilament; Proximal axonopathy; Vestibular ganglia (Llorens, J. (717) 118)

Trauma; Axotomy; Sympathetic neuron; Calcium; Calcium channel; Confocal microscopy (Sattler, R. (719) 239)

Nitric oxide; Inducible nitric oxide synthase; β-Amyloid protein; Microglial cells; Interferon-γ; Alzheimer's disease (Ii, M. (720) 93)

Methylmalonic acid; Organic acidemia; Open field; Convulsion; Seizure; Striatum; Excitotoxicity; Rotational behavior (De Mello, C.F. (721) 120)

Autometallography; Bismuth; Heavy metal; Hydrocephalus; Tissue distribution; Mouse (Ross, J.F. (725) 137)

D-Fenfluramine; Serotonin uptake carrier; Serotonin release; Rat brain; Synaptosome (Gobbi, M. (730) 165)

Calcium; Cyanide; Hypoxia; NMDA antagonist; Fura-2 (Ferger, D. (732) 87)

Short-term potentiation; Long-term potentiation; Lead; NMDA; Excitatory postsynaptic potential; Electrophysiology; Extracellular recording (Grover, C.A. (734) 61)

Cell death; Hippocampus; Glutamate; Uptake; NMDA; Na^+; Ca^{2+} (Takahashi, M. (735) 1)

MPTP; MPP^+; Striatal dopamine; Gender; CD-1 mouse (Freyaldenhoven, T.E. (735) 232)

Nicotine; Dexamethasone; Hippocampus; Kainic acid (Semba, J. (735) 335)

Poly(ADP-ribose) polymerase; Benzamide; Methamphetamine; Neuroprotection; Striatal dopamine; C57Bl/6N mouse (Cosi, C. (735) 343)

Dentate gyrus; Long-term potentiation; Lead; Hippocampus; Rat; Learning and memory (Gilbert, M.E. (736) 118)

Ibogaine; Purkinje cell; Cerebellum; Zebrin; Glial fibrillary acidic protein; Fink-Heimer stain (Molinari, H.H. (737) 255)

Adriamycin; Doxorubicin; Motoneuron; Aging; Equivalent cylinder; Cell size; Intracellular recording (Liu, R.-H. (738) 121)

Alzheimer's disease; β-Amyloid; Apoptosis; Necrosis; DNA laddering (Li, Y.-P. (738) 196)

L-2-Chloropropionic acid; NMDA receptor; Rat cerebellum; Glutamate antagonist; Glycine antagonist (Widdowson, P.S. (738) 236)

Lead; Calcium current; PC12 cell; Patch clamp (Hegg, C.C. (738) 333)

Presynaptic release; Dopamine; Glutamate; Astrocyte (Gracy, K.N. (739) 169)

PACAP; Glutamate; Cortical neuron; Cyclic AMP; Cytoprotection (Morio, H. (741) 82)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; *N*-Methyl-4-phenylpyridine; Common marmoset; Nimodipine; Calcium; Striatum; Substantia nigra (Kupsch, A. (741) 185)

Norepinephrine; Dopamine; Locus coeruleus; Nigrostriatal; Uptake; Transporter (Dluzen, D.E. (741) 215)

Calcium; Calpain; Dorsal root ganglia; Neurite outgrowth; Suramin (Sun, X. (742) 149)

Retinal ganglion cell; Axonal regeneration; Astrocyte; Reactive oxygen species (Lucius, R. (743) 56)

Ascorbic acid; Autoxidation; Dopamine; Glutamate; L-DOPA; Striatum (Cheng, N.-n. (743) 278)

Neurotoxic lesion
Ibotenic acid; Magnetic resonance imaging; Piriform cortex; Edema (Ben-Horin, N. (718) 97)

Neurotoxic threshold
Dopamine; DSP-4; Methamphetamine; Nigrostriatal pathway; Norepinephrine (Fornai, F. (735) 349)

Neurotoxin
3,4-Dihydroxyphenylglycolaldehyde; Catecholamine; MAO-A metabolite; PC-12 cell (Burke, W.J. (722) 232)

Apamin; Sleep; Waking; Insomnia; Ca^{2+}-activated K^+ channel (Gandolfo, G. (736) 344)

Noradrenaline; Lumbar spinal cord; Ventral horn; Microdialysis; Transmitter release; Electrolytic lesion; Rat (Leanza, G. (738) 281)

Neurotransmission
Magnetic field; Hippocampal slice (Trabulsi, R. (728) 135)

NMDA; AMPA; Kainate; Glutamate; Monkey; Pain; Microiontophoresis (Dougherty, P.M. (728) 267)

Neurotransmitter
Brain; Hypoxia-ischemia; Immaturity; Status epilepticus (Cataltepe, O. (709) 326)

Ultrastructure; Anatomy; Analgesia; Afferent (Cheng, P.Y. (731) 141)

Cholinergic system; Nicotine; Receptor; Receptor subunit (Torrão, A.S. (743) 154)

Neurotransmitter receptor subtype
$GABA_A$; Development; Innervation; Cerebellar granule neuron (Ueno, S. (714) 49)

Neurotransmitter release
Chloride-sensitive indicator; MQAE; Receptor-mediated chloride flux; $GABA_A$ receptor; Glycine receptor (Engblom, A.C. (712) 74)

Submucous plexus neuron; L-DOPA; L-DOPA methyl ester; Intracellular recording; Fast EPSP; Fura-2 microfluorophotometry; Intracellular calcium concentration (Hirai, K. (718) 105)

In vivo microdialysis; Brain stimulation; Rat; Noradrenaline (Florin-Lechner, S.M. (742) 89)

Neurotrophic factor
Transforming growth factor α; Cholinergic neuron; GABAergic neuron; Epidermal growth factor; Septal cell culture; Glia (Mazzoni, I.E. (707) 88)

Substance P; Thyrotropin-releasing hormone; Ventral raphe-spinal pathway; Lower motor neuron (Van den Bergh, P. (707) 206)

Brain-derived neurotrophic factor; Serotonin; Platelet; Serum; Brain; ELISA immunoassay (Radka, S.F. (709) 122)

Ciliary neurotrophic factor; Phorbol 12-myristate 13-acetate; Astrocyte; AP-1 (Nagao, H. (719) 23)

Dopamine neuron; Basic fibroblast growth factor; Glia; Cell culture; Mesencephalon (Hou, J.-G.G. (724) 145)

Neurotrophin
Parkinson's disease; Nigral graft; Fibre outgrowth (Haque, N.S.K. (712) 45)

Nerve growth factor, 1-Methyl-4-phenylpyridinium; Mitochondrion; Parkinson's disease (Kirschner, P.B. (713) 178)

Superior cervical ganglion; Neurogenesis; Development; Neurotropic; Transgenic mouse (Davis, B.M. (724) 47)

Exercise; Physical activity; Neural activity; Environmental stimulus; Gene expression; Brain plasticity (Neeper, S.A. (726) 49)

Intracellular-free calcium; Septohippocampal; Indo-1; Ethanol neurotoxicity; Nerve growth factor (Webb, B. (729) 176)

Nerve growth factor; Visual cortex; GAP-43; Synaptophysin; Plasticity (Liu, Y. (732) 36)

Fetal alcohol syndrome; Nerve growth factor receptor; Cell culture; PC12; Nerve growth factor binding study; Immunoprecipitation; Northern blot analysis (Luo, J. (737) 34)

Neurotrophin-3
Transplantation Immunology; Glial cell line derived neurotrophic factor; Brain derived neurotrophic factor; Ramified microglia; Reactive microglia (Shinoda, M. (722) 153)

Nerve growth factor; Brain-derived neurotrophic factor; PC2; Epileptiform activity; Co-regulation; Co-localization; In situ hybridization (Meyer, A. (732) 121)

Neurotropic
Superior cervical ganglion; Neurogenesis; Development; Neurotrophin; Transgenic mouse (Davis, B.M. (724) 47)

Neurotropic factor
Cell line; Differentiation; Dopamine; Glial cell (Heller, A. (725) 132)

Newborn
Hypoxia; Catecholamine; Heat shock protein; Brain (Murphy, S.J. (727) 145)

Brain injury; Hypoxia; Na^+,K^+-ATPase; Outcome; Energy metabolism (Rosenkrantz, T.S. (730) 52)

Apnea; Cerebral oxygenation; Hypoxia; Phosphorescence (Tammela, O.K.T. (741) 160)

Nexin
LRP; Amyloid precursor protien; Amyloid; ApoE; Alzheimer; Receptor associated protein (Knauer, M.F. (740) 6)

NF-κB
Penumbra; Macrophage; Microglia; Astrocyte (Terai, K. (739) 343)

NG108-15 cell
P_2 Purinoceptor; Cytosolic Ca^{2+} concentration; Cyclic AMP accumulation (Song, S.-L. (734) 243)

Amitriptyline; Antidepressant; Cyclic GMP; Guanylyl cyclase; 5-HT_3 receptor; Serotonin (5-HT) (Shimizu, M. (741) 89)

NGF-induced gene
Rat development; Neurogenesis; Gene expression; Hybridization, in situ (Iacopetti, P. (707) 293)

***N*$^{\omega}$-Nitro-L-arginine methyl ester**
Phencyclidine; Nitric oxide; 7-Nitroindazole; Discriminative stimulus; Drug discrimination; Operant behavior; Catalepsy (Jewett, D.C. (715) 25)

Nicardipine
Bevantolol; Propranolol; Lidocaine; Ca^{2+}-antagonistic action; CNS neuron (Omura, T. (706) 289)

Platelet-activating factor; Brain ischemia; Bay K8644; MK-801; Ca^{2+} influx (Nishida, K. (733) 203)

Nicotine
Neuronal nicotinic receptor; Electrophysiology; Acetylcholine; Chick central nervous system; Brain slice (Weaver, W.R. (725) 95)

Acetylcholine; Septal lesion; Pyramidal cell; Hippocampus; Cytisine; α-Bungarotoxin (Frazier, C.J. (727) 217)

Behavioral sensitization; Dopamine; Fos immunohistochemistry; Mesolimbic; Ventral tegmental area (Panagis, G. (730) 133)

Muscarinic receptor; Nicotinic receptor; Development; Brain; Chronic treatment (Zhu, J. (732) 257)

Neurotoxicity; Dexamethasone; Hippocampus; Kainic acid (Semba, J. (735) 335)

REM sleep; PGO spike (Vazquez, J. (737) 317)

Cholinergic system; Neurotransmitter; Receptor; Receptor subunit (Torrão, A.S. (743) 154)

Nicotinic
Choline; Oxytocin; Muscarinic; Hemicholinium-3; Osmotic stimulation; Hemorrhage (Savci, V. (709) 97)

Amphetamine; Behavioral sensitization; Cholinergic; Cocaine; Mice; Stereotypy (Karler, R. (725) 192)

Memory; Radial-arm maze; Hippocampus; Nucleus accumbens; Muscarinic; Scopolamine; Mecamylaine (Kim, J.S. (725) 231)

Nicotinic acetylcholine receptor
α-Bungarotoxin; H19-7 cell; Hippocampal neuron (Komourian, J. (718) 31)

Vestibular; Efferent; Hybridization, in situ; Hair cell; Scarpa's ganglion (Hiel, H. (738) 347)

Nicotinic antagonist
Dihydro-beta-erythroidine; Morris water maze; Radial arm maze; Spatial memory; Rat (Curzon, P. (714) 185)

Nicotinic receptor
Muscarinic receptor; Development; Brain; Chronic treatment; Nicotine (Zhu, J. (732) 257)

Nifedipine
Prostaglandin; Bradykinin; Capsaicin; ω-Conotoxin; ω-Agatoxin; Release; Voltage-sensitive calcium channel (Evans, A.R. (712) 265)

Cell division; Endogenous opioid system; μ-Opioid receptor; Neural development; Intracellular calcium; Dantrolene; Thapsigargin; Fura-2 (Hauser, K.F. (720) 191)

Opioid receptor; Cell division; Central nervous system maturation; Neuroglia; Drug abuse; Endogenous opioid system; U69593; U50488H; *Nor*-binaltorphimine; Fura-2; Intracellular calcium; Thapsigargin (Gurwell, J.A. (737) 175)

Carotid body; Type I cell; Chronic hypoxia; Ca^{2+} channel; ω-Conotoxin GVIA (Peers, C. (739) 251)

Niflumic acid
Frog neuromuscular junction; Non-steroidal antiinflammatory drug; Potassium current; Calcium current; Presynaptic current; Acetylcholine; Quantal transmitter release; Synaptic depression (Miralles, F. (714) 192)

Choroid plexus; Taurine; Hypo-osmotic stress; Volume regulation; Calmodulin antagonist (Keep, R.F. (715) 17)

Nigral cell loss
Methamphetamine; Dopaminergic neurotoxicity; Substantia nigra neuropathology; Mice; Animal model of Parkinson's disease; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine) (Sonsalla, P.K. (738) 172)

Nigral graft
Neurotrophin; Parkinson's disease; Fibre outgrowth (Haque, N.S.K. (712) 45)

Nigrostriatal
Parkinson's disease; Substantia nigra; Dopamine receptor; Striatum (F. Piercey, M. (706) 249)

Norepinephrine; Dopamine; Locus coeruleus; Uptake; Transporter; Neurotoxicity (Dluzen, D.E. (741) 215)

Pramipexole; Degeneration; Neuroprotection; Ischemia; Methamphetamine (Hall, E.D. (742) 80)

Nigrostriatal pathway
Dopamine; DSP-4; Methamphetamine; Neurotoxic threshold; Norepinephrine (Fornai, F. (735) 349)

Nimodipine
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; *N*-Methyl-4-phenylpyridine; Common marmoset; Calcium; Neurotoxicity; Striatum; Substantia nigra (Kupsch, A. (741) 185)

Nitric oxide
Parasympathetic nerve; Cerebral blood flow (Goadsby, P.J. (707) 110)

Nitric oxide synthase; Circadian rhythm; Sleep; Central nervous system; Hypothalamus; Protein level; Rat (Ayers, N.A. (707) 127)

ADP-ribosylation; Mono-ADP-ribosylation; Poly-ADP-ribosylation; *N*-Methyl-D-aspartate; Traumatic brain injury; CA1; Hippocampus (Wallis, R.A. (710) 169)

Parallel fiber; Cerebral blood flow; Glutamate; Metabolic regulation; Laser-Doppler flowmetry; Synaptic activity (Akgören, N. (710) 204)

Glucocorticoid; Dorsal horn; Nociception; Nitric oxide synthase; Brainstem (Hathaway, C.B. (712) 143)

Trimethyltin; Hippocampus (Ikeda, M. (712) 168)

Constitutive NOS; GFAP; Weak aldehyde fixation (Gabbott, P.L.A. (714) 135)

Phencyclidine; N^{ω}-Nitro-L-arginine methyl ester; 7-Nitroindazole; Discriminative stimulus; Drug discrimination; Operant behavior; Catalepsy (Jewett, D.C. (715) 25)

Astrocyte; ET-18-OCH_3; Platelet activating factor; PAF; CPAF; LPS; BN 50730 (Cardile, V. (715) 98)

Glutamate; Aspartate; Microdialysis (Getting, S.J. (717) 196)

Brain nitric oxide synthase; Central depression; 7-Nitro indazole; Nitric oxide inhibitor; Sleep; Rat (Dzoljic, M.R. (718) 145)

cGMP; Protein kinase C; Glutamate; *N*-Methyl-D-aspartate; Cerebellar granule cell (Riccio, A. (718) 159)

Mercury poisoning; Purkinje cell; Cerebellum (Himi, T. (718) 189)

Aminoguanidine; Blood-brain barrier; Blood-cerebrospinal fluid barrier; Meningitis; Nitric oxide synthase; Neuroinflammation; Neurodegeneration (Boje, K.M.K. (720) 75)

Inducible nitric oxide synthase; β-Amyloid protein; Neurotoxicity; Microglial cells; Interferon-γ; Alzheimer's disease (Ii, M. (720) 93)

Nitric oxide synthase; Immobilization stress; Paraventricular nucleus; Pituitary; Adrenal cortex; Hypothalamic–pituitary–adrenal axis; Adrenal medulla; Hybridization, in situ (Kishimoto, J. (720) 159)

Mytilus edulis; Morphine; Microglia; Ganglion; Invertebrate (Liu, Y. (722) 125)

Tyrosine hydroxylase; Sympathetic preganglionic neuron; Spinal cord (Smithson, I.L. (723) 218)

Endothelin; Cerebral ischemia; Cerebral blood flow; Endothelin$_A$ receptor (Spatz, M. (726) 242)

NADPH-diaphorase; Catecholamine; Amphibian; Evolution (González, A. (727) 49)

Glutamate; NMDA receptor; Hippocampus; Dentate gyrus; High-performance liquid chromatography; Release; Guinea pig (Nei, K. (728) 105)

Lipopolysaccharide; Protein tyrosine kinase inhibitor; Inducible nitric oxide synthase; Microglia; Astrocyte (Kong, L.-Y. (729) 102)

Excitatory amino acid; Immunogold silver staining; Double labeling; Retina (Zhang, C. (729) 205)

EL mouse; NADPH diaphorase; Hippocampal formation; Convulsive seizure; Epilepsy (Nagatomo, I. (730) 223)

Neuromuscular junction; Synaptic transmission; Cholinergic transmission; Skeletal muscle; Ocular muscle; Acetylcholine receptor (Kusner, L.L. (730) 238)

Cerebral ischemia; Microdialysis, in vivo; Nitrite; Griess reaction; Striatum (Shibata, M. (734) 86)

Cyclic GMP; Glutamate; Isoflurane; Volatile anesthetic; Cultured neuron; Rat (Loeb, A.L. (734) 295)

cGMP; *hph-1* mouse; Kainate; Tetrahydrobiopterin (Brand, M.P. (735) 169)

7-Nitro indazole; Nociception; Intrathecal; Spinal cord; Wind-up; Inflammation (Stanfa, L.C. (737) 92)

Glutamate; Microdialysis, in vivo; L-Arginine; N^G-Nitro-L-arginine; Transient forebrain ischemia (Nanri, K. (738) 243)

Nitric oxide synthase inhibitor; Hyperthermia; Glutamate; Delayed neuronal death; Hippocampus; Gerbil (Kohno, K. (738) 275)

Nitric oxide synthase; Inducible nitric oxide synthase; Glial cell; Hypoxia; Interferon-γ; Interleukin-1β (Kawase, M. (738) 319)

Pregnancy; Neuroendocrine function; Nitric oxide synthase (Woodside, B. (739) 339)

N-Methyl-D-aspartate; Sodium nitroprusside; Estrogen; Progesterone; Norepinephrine; Hypothalamus; Preoptic area (Chu, H.-P. (741) 60)

FITC-dextran; Cerebral venule; Pial arteriole; L-NMMA; Brain; Rat (Mayhan, W.G. (743) 70)

CA1 neuron; Culture; Glutamate; Hypoxia; Platelet activating factor; Postnatal; Rat (Ohmori, T. (743) 109)

3,4-Diaminopyridine; Dopamine release; Acetylcholine release; Rabbit caudate nucleus; Autoreceptor; Opioid receptor; Adenosine receptor (Ries, V. (743) 303)

Nitric oxide inhibitor
Brain nitric oxide synthase; Central depression; 7-Nitro indazole; Nitric oxide; Sleep; Rat (Dzoljic, M.R. (718) 145)

Nitric oxide (NO)
Culture; Glutamate; Neurotoxicity; *N*-Methyl-D-aspartate; Retina (Kashii, S. (711) 93)

Nitric oxide synthase
Nitric oxide; Circadian rhythm; Sleep; Central nervous system; Hypothalamus; Protein level; Rat (Ayers, N.A. (707) 127)

Vomeronasal organ; Trigeminal ganglion; Sphenopalatine ganglion; Neuropeptide; Coexistence; Dual band filter; Mouse (Matsuda, H. (712) 35)

Glucocorticoid; Dorsal horn; Nociception; Nitric oxide; Brainstem (Hathaway, C.B. (712) 143)

Huntington's disease; Excitotoxicity ; Mitochondria; NMDA; Basal ganglia; Chronic administration (Bazzett, T.J. (718) 228)

Aminoguanidine; Blood-brain barrier; Blood-cerebrospinal fluid barrier; Meningitis; Nitric oxide; Neuroinflammation; Neurodegeneration (Boje, K.M.K. (720) 75)

Nitric oxide; Immobilization stress; Paraventricular nucleus; Pituitary; Adrenal cortex; Hypothalamic–pituitary–adrenal axis; Adrenal medulla; Hybridization, in situ (Kishimoto, J. (720) 159)

Anamniote; NADPH-diaphorase; Olfactory system (Porteros, A. (724) 67)

Kainic acid; Excitotoxin; Brain; NADPH diaphorase; Glial cell; Endothelial cell (Lei, D.-L. (730) 199)

Rabbit; Spinal ischemia; Cu/Zn superoxide dismutase; Nitrotyrosine; Motor neuron death (Watanabe, M. (732) 69)

Brainstem; Immunocytochemistry; Noradrenaline; Rat (Simonian, S.X. (732) 247)

Immunocytochemistry; Densitometry; Histochemistry; CA1; Long-term potentiation (Vaid, R.R. (733) 31)

Heart failure; Gene expression; Hypothalamus; Brainstem; Sympathetic activity (Patel, K.P. (734) 109)

Forebrain; Epilepsy; Chick; Hereditary; Seizure; Photic stimulation (Sandirasegarane, L. (735) 311)

Somatostatin; Neuropeptide Y; NADPH-diaphorase; Co-localization; Striatum; Basal ganglia (Figueredo-Cardenas, G. (735) 317)

Nitric oxide; Inducible nitric oxide synthase; Glial cell; Hypoxia; Interferon-γ; Interleukin-1β (Kawase, M. (738) 319)

Nitric oxide; Pregnancy; Neuroendocrine function (Woodside, B. (739) 339)

NADPH diaphorase; Estrogen receptor; Ventromedial hypothalamus; Immunocytochemistry; Electron microscopy; Reproductive behavior (Rachman, I.M. (740) 291)

NADPH diaphorase; Brain; Anura; Frog (Brüning, G. (741) 331)

NADPH-diaphorase; Ultrastructural localization; Retina; Goldfish (Villani, L. (743) 353)

Nitric oxide synthase inhibitor
Nitric oxide; Hyperthermia; Glutamate; Delayed neuronal death; Hippocampus; Gerbil (Kohno, K. (738) 275)

Morphine; Withdrawal syndrome; Naloxone; Locus coeruleus; Voltammetry (Hall, S. (739) 182)

Nitrite
Nitric oxide; Cerebral ischemia; Microdialysis, in vivo; Griess reaction; Striatum (Shibata, M. (734) 86)

Nitroheterocycle
Reduction potential; Electron affinity; Rat brain microsomes; Redox cycling of xenobiotics; Superoxide radical; NADPH-cytochrome *P*-450 reductase; Quinone; Bipyridinium; Brain ageing; Neurodegeneration (Livertoux, M.-H. (725) 207)

7-Nitroindazole
Neuronal nitric oxide synthase; Trigeminal pathway; Autoradiography; [^{14}C]iodoantipyrine; Somatosensory activation; α-Chloralose (Cholet, N. (708) 197)

Phencyclidine; Nitric oxide; N^{ω}-Nitro-L-arginine methyl ester; Discriminative stimulus; Drug discrimination; Operant behavior; Catalepsy (Jewett, D.C. (715) 25)

Brain nitric oxide synthase; Central depression; Nitric oxide; Nitric oxide inhibitor; Sleep; Rat (Dzoljic, M.R. (718) 145)

Nitric oxide; Nociception; Intrathecal; Spinal cord; Wind-up; Inflammation (Stanfa, L.C. (737) 92)

N^{G}-Nitro-L-arginine
Glutamate; Microdialysis, in vivo; L-Arginine; Nitric oxide; Transient forebrain ischemia (Nanri, K. (738) 243)

3-Nitropropionic acid
Amphetamine; Neurotoxicity; Dopamine; Caudate-putamen (Bowyer, J.F. (712) 221)

Nitrotyrosine
Rabbit; Spinal ischemia; Cu/Zn superoxide dismutase; Nitric oxide synthase; Motor neuron death (Watanabe, M. (732) 69)

Nitrous oxide
Antinociception; Inbred mouse strains; Quantitative trait loci (Quock, R.M. (725) 23)

Preproenkephalin; mRNA; Opioid; Hypothalamus; Met-enkephalin (Agarwal, R.K. (730) 47)

Nitroxide
Closed-head injury; Edema; Free radical; Neuroprotection (Beit-Yannai, E. (717) 22)

NK1 antagonist
Mechanical allodynia; Mechanical hyperalgesia; CP-99,994-1; Tachykinin (Carlton, S.M. (734) 103)

NK cell activity
Opioid receptor antagonist; ICI-174 864; Conditioning; Cyprodime hydrobromide (cyprodime HBr); Nor-binaltorphimine dihydrochloride (nor-BNI) (Hsueh, C.-M. (737) 263)

NK_1 receptor
Dorsal root ganglion; Tachykinin; Potassium current; M-Current; G-Protein (Akasu, T. (713) 160)

NK-3 receptor
Tachykinin; Antidiuretic action; Paraventricular nucleus; Vasopressin V2 receptor; Senktide (Eguchi, T. (743) 49)

NK-1 receptor antagonist
Morphine; Scratch reflex; Spinal cord; Intrathecal injection (Sakurada, T. (724) 213)

NMDA
Huntington's disease; Excitotoxicity ; Mitochondria; Nitric oxide synthase; Basal ganglia; Chronic administration (Bazzett, T.J. (718) 228)

Focal cerebral ischemia; Excitotoxicity; Apoptosis; Hypoxia; Glutamate (Du, C. (718) 233)

Antinociception; Substance P; Opioid; Intrathecal administration; Spinal cord (Masuyama, T. (722) 200)

AMPA; Dog; Glutamate receptor; Ischemia; Kainate; Primate brain (Hof, P.R. (723) 77)

Flow cytometry; MK-801; Cerebellum; Granule cell; Oxidative stress; Calcium; Indo-1 (Sureda, F.X. (723) 110)

AMPA; Kainate; Glutamate; Monkey; Pain; Microiontophoresis; Neurotransmission (Dougherty, P.M. (728) 267)

Long-term potentiation; Perirhinal cortex; Associative; Memory (Bilkey, D.K. (733) 297)

Short-term potentiation; Long-term potentiation; Lead; Excitatory postsynaptic potential; Electrophysiology; Extracellular recording; Neurotoxicity (Grover, C.A. (734) 61)

Neurotoxicity; Cell death; Hippocampus; Glutamate; Uptake; Na^+; Ca^{2+} (Takahashi, M. (735) 1)

Excitatory amino acid; Neurodegenerative disease; Receptor; Immunocytochemistry; Striatum (Chen, Q. (743) 346)

NMDA antagonist
Calcium; Cyanide; Hypoxia; Neurotoxicity; Fura-2 (Ferger, D. (732) 87)

NMDA / glycine site
D-Cycloserine; Milacemide; β-Amyloid; Amnesia (Maurice, T. (731) 249)

NMDA receptor
Domestic chick; Passive-avoidance learning; Neuronal plasticity; Learning (Bradley, P.M. (708) 100)

Spermine; Spermidine; Putrescine; Ganglion cell; Amacrine cell; Ion channel; Glutamate (Valentino, T.L. (713) 278)

Long-term depression; Age-dependency; Input-specificity; Heterosynaptic depression; Spiking threshold; Low-frequency stimulation (Staubli, U.V. (714) 169)

Ontogeny; Development; Membrane binding; Agonist; Antagonist; Heterogeneity (Enomoto, R. (723) 100)

Hypoxia; Osmolality; Hippocampal slice; Cell swelling; CGS-19755 (Payne, R.S. (723) 210)

Pigeon hippocampus; Long-term potentiation (Shapiro, E. (725) 199)

Defensive rage behavior; Medial hypothalamus; Midbrain periaqueductal gray; Excitatory amino acid; Receptor binding; Immunocytochemical labeling (Schubert, K. (726) 80)

6-Hydroxydopamine; Striatum; L-DOPA; Fos protein; MK-801; Dopaminergic transplant; Rat (Ishida, Y. (727) 205)

Visual cortex; Visual deprivation; Cat; Contrast–response curve; Synapse elimination (Czepita, D. (728) 7)

Glutamate; Nitric oxide; Hippocampus; Dentate gyrus; High-performance liquid chromatography; Release; Guinea pig (Nei, K. (728) 105)

$5\text{-}HT_{1A}$ receptor; Glutamate; Dentate gyrus; HPLC; Release (Matsuyama, S. (728) 175)

Hypoxia; Brain; CPP (Fritz, K.I. (729) 66)

Visual recognition memory; Delayed nonmatching-to-sample; Cognitive impairment; Glycine receptor; HA-966; MK-801; Monkey (Matsuoka, N. (731) 72)

Acidosis; Neuron death; Metabolism; Cortex; Hippocampus; Hypoxia ischemia; Microphysiometry (Trafton, J. (731) 122)

Formalin test; Antinociception; Tolerance; Glycine co-agonist site (Lutfy, K. (731) 171)

Flank marking; MPOA-AH; Non-NMDA receptor; Aggression (Bamshad, M. (731) 213)

Glycine binding; Development; Hypoxia; Brain; Fetus (Razdan, B. (733) 15)

Morphine tolerance; Opiate tolerance; Opiate; Dizolcipine; Glutamate; Intracellular calcium (Garcia, M.M. (734) 123)

Cerebral glucose metabolism; FR115427; MK801; CGS19755 (Sharkey, J. (735) 67)

Hippocampus; Working memory; $5\text{-}HT_{1A}$ receptor; NAN-190; Acetylcholine; Scopolamine; (±)-3-(2-Carboxypiperazin-4-yl)propyl-1-phosphonic acid (Ohno, M. (736) 180)

L-2-Chloropropionic acid; Rat cerebellum; Glutamate antagonist; Glycine antagonist; Neurotoxicity (Widdowson, P.S. (738) 236)

Stereotypy; Glutamate; Caudate-putamen; Striatum (McPherson, R.J. (739) 19)

Plasminogen; Plasmin; α_2-Antiplasmin; Long-term potentiation; Short-term potentiation; Hippocampal slice; Rat (Mizutani, A. (739) 276)

NMDA receptor antagonist
MK-801; LY 235959; D-Ala^2, Glu^4 deltorphin II; δ_2 opioid receptor agonist; Mice; Analgesic; Tolerance (Bhargava, H.N. (719) 56)

***N*-methyl-D-aspartate (NMDA) receptor antagonist**
Non-competitive; Allodynia; Hyperalgesia; Spontaneous pain; Nociception; Intraperitoneal (Qian, J. (715) 51)

NMDA receptor / glycine site
Nucleus accumbens; Cocaine; Locomotor activity; Sensitization (Khan, M.A. (719) 198)

Intrathecal; Non-NMDA receptor; Antinociception; Tail flick assay; Formalin test (Lutfy, K. (743) 17)

***N*-methyl-D-aspartate**
D-Cycloserine; Glycine site; Memory; Morris water maze; Rat; Treatment (Temple, M.D. (741) 246)

***N*-methyl-D-aspartate receptor**
γ-Aminobutyric acid; Immunohistochemistry; Middle cerebral artery occlusion; Substantia nigra (Yamada, K. (743) 233)

***N*-methyl-D-aspartic acid**
Pain; Trigeminal; Nociception; Analgesia; Dorsal horn; [D-Ala^2,*N*-Me-phe^4,Gly^5-ol]enkephalin; [D-Pen^{2,5}]enkephalin (Zhang, K.-M. (719) 229)

L-NMMA
FITC-dextran; Cerebral venule; Pial arteriole; Nitric oxide; Brain; Rat (Mayhan, W.G. (743) 70)

Nociceptin
Orphanin FQ; Orphan receptor; Conditioned place preference; Opioid receptor (Devine, D.P. (727) 225)

Nociception
Dynorphin(1–8); Antinociception; Thermal stimulation; Spinal cord; Tachykinin (Zachariou, V. (706) 80)

Pain sensitivity; Tailflick latency; Steroid hormone; Progestin; Membrane mechanism; Non-genomic; γ-Aminobutyric acid; Lordosis (Frye, C.A. (709) 1)

Spinothalamic tract neuron; Cardiopulmonary sympathetic afferent; Spinal transection; Inhibition; Vagus nerve (Zhang, J. (709) 337)

Substance P; CP-99,994; Substance P(1–7); Iontophoresis; Wind-up; Spinal cord; Rat (Budai, D. (710) 197)

Calcium binding protein; Calbindin; Parvalbumin; Thalamocortical pathway; Somatosensory system (Lin, R.C.S. (711) 50)

Glucocorticoid; Dorsal horn; Nitric oxide; Nitric oxide synthase; Brainstem (Hathaway, C.B. (712) 143)

Locus coeruleus; Noradrenaline; Morphine; Naloxone; C-fiber (Hirata, H. (714) 9)

N-methyl-D-aspartate (NMDA) receptor antagonist; Non-competitive; Allodynia; Hyperalgesia; Spontaneous pain; Intraperitoneal (Qian, J. (715) 51)

Immediate early gene; c-*fos*; Anatomy; Cardiovascular (Allen, G.V. (715) 125)

Carrageenan; COX-2 inhibitor; Inflammation; Spinal cord; Rat (Buritova, J. (715) 217)

Reticular formation; Subnucleus reticularis dorsalis; Subnucleus reticularis ventralis; Medulla oblongata; Cat (Fujino, Y. (715) 225)

Substance P receptor; Trigeminothalamic tract; Spinothalamic tract; Trigeminal nuclei; Spinal cord; Thalamus; Rat (Li, J.-L. (719) 207)

Pain; Trigeminal; Analgesia; Dorsal horn; *N*-methyl-D-aspartic acid; [D-Ala^2,*N*-Me-phe^4,Gly^5-ol]enkephalin; [D-Pen^{2,5}]enkephalin (Zhang, K.-M. (719) 229)

Pain; Antinociception; Analgesia; Noxious stimulus; Spinal reflex; Spinal cord (Romita, V.V. (720) 45)

Jaw reflex; Reflex modulation; Human (Cadden, S.W. (726) 189)

Inflammation; Visceral; Colon; Colorectal distension; Zymosan; Excitatory amino acid; *N*-Methyl-D-aspartate (Coutinho, S.V. (736) 7)

Nitric oxide; 7-Nitro indazole; Intrathecal; Spinal cord; Wind-up; Inflammation (Stanfa, L.C. (737) 92)

Substance P; Glutamate; *N*-Methyl-D-aspartate; Tachykinin; Slow excitatory transmission; Dorsal root stimulation; Wind-up (Baranauskas, G. (738) 329)

Pain; Medullary dorsal horn; Trigeminal nucleus caudalis; Opioid receptors; Antinociception (Wang, X.-M. (739) 235)

Tachykinin; Neurokinin receptor; Hyperalgesia; Inflammation; Substance P; Flexion reflex; Spinal cord hyperexcitability (Parsons, A.M. (739) 263)

Visceral pain; Estrous cycle; Colonic distension; Rat; Halothane; Anesthesia (Sapsed-Byrne, S. (742) 10)

Nociceptive neuron
Tooth pulp; Subnucleus caudalis; Reticular formation; Medulla oblongata; Cat (Yokota, T. (715) 230)

Thalamic nucleus submedius; Spinal cord dorsal horn; Descending modulation; Rat (Zhang, Y.-Q. (737) 16)

Nociceptive specific neuron
Cingulate cortex; Morphology; Intracellular recording; Neurobiotin (Yamamura, H. (735) 83)

Nociceptive transmission
Insulin-like growth factor I; Insulin; Spinal cord (Bitar, M.S. (737) 292)

Nodose ganglia
Pituitary adenylate cyclase activating polypeptide; Chromaffin cell; Catecholamine; Dorsal root ganglia (Dun, N.J. (716) 11)

Nodose ganglion
Calbindin D-28k; Calcitonin gene-related peptide; Immunohistochemistry; Jugular ganglion; NADPH-diaphorase; Petrosal ganglion; Tyrosine hydroxylase (Ichikawa, H. (735) 325)

Non-competitive
N-methyl-D-aspartate (NMDA) receptor antagonist; Allodynia; Hyperalgesia; Spontaneous pain; Nociception; Intraperitoneal (Qian, J. (715) 51)

Non-exocytotic release
Dialysis; Na,K-ATPase; Noradrenaline; Ouabain; Pargyline (Yamazaki, T. (737) 343)

Non-genomic
Nociception; Pain sensitivity; Tailflick latency; Steroid hormone; Progestin; Membrane mechanism; γ-Aminobutyric acid; Lordosis (Frye, C.A. (709) 1)

Nonlinear interaction
Visual cortex; Glutamate; Noradrenaline; Synaptic plasticity; Calcium; Imaging; Synergy (Yang, B. (721) 181)

Non-NMDA
AMPA; Cyclothiazide; Edema; Purkinje cell; Cerebellum; Desensitization (Strahlendorf, J.C. (729) 197)

Non-NMDA receptor
Striatum; 6-Hydroxydopamine; Medial forebrain bundle; GBR 12935; Dopamine uptake complex (Zavitsanou, K. (731) 132)

Flank marking; MPOA-AH; NMDA receptor; Aggression (Bamshad, M. (731) 213)

Intrathecal; NMDA receptor/glycine site; Antinociception; Tail flick assay; Formalin test (Lutfy, K. (743) 17)

Non-photic
Circadian rhythm; Arousal; Entrainment; Serotonin; Hamster; Activity (Sumova, A. (709) 88)

Serotonin; 5,7-Dihydroxytryptamine; Suprachiasmatic nucleus, activity (Bobrzynska, K.J. (741) 205)

Non-photic entrainment
Circadian rhythm; Vitamin B_{12}; Saline; Daily injection; Mouse (Ebihara, S. (727) 31)

Non-rapid eye movement sleep
Preoptic area; Anterior hypothalamus; Thermosensitive neuron; Thermosensitivity; Wakefulness (Alam, Md.N. (718) 76)

Non-selective cation channel
Adenosine triphosphate; Adenosine diphosphate; Phosphorylation; AlF complex; G protein; Chromaffin cell (Inoue, M. (707) 298)

Nonselective cation channel
G protein; Mg^{2+}; Unit conductance; Power spectrum; Muscarinic receptor (Inoue, M. (739) 350)

Non-spatial memory
192 IgG-saporin; Cholinergic hypothesis; Hippocampus; Immunotoxin; Neocortex (Vnek, N. (710) 265)

Non-steroidal antiinflammatory drug
Frog neuromuscular junction; Niflumic acid; Potassium current; Calcium current; Presynaptic current; Acetylcholine; Quantal transmitter release; Synaptic depression (Miralles, F. (714) 192)

Dipyrone; Naloxone; Opiates; Periaqueductal gray; Off-cell; On-cell; Antinociception; Tail flick (Tortorici, V. (725) 106)

Noradrenaline
Posterior hypothalamus; Wistar rat; Intracranial microdialysis; Recovery; Sevoflurane; Halothane (Chave, S. (706) 293)

Methamphetamine; Neuropeptide Y; Paraventricular nucleus (Yoshihara, T. (707) 119)

Rat; Transplantation; Spinal cord; Synaptic junction (Giménez y Ribotta, M. (707) 245)

Cerebral ischemia; Spatial cognition; 8-Arm radial maze task; Microdialysis; Glutamate; Acetylcholine (Iwasaki, K. (709) 163)

Hippocampus; Potentiation, long-term (Harley, C.W. (710) 293)

Antidepressant; Astrocyte; Calcium; Lithium (Chen, Y. (711) 245)

Locus coeruleus; Nociception; Morphine; Naloxone; C-fiber (Hirata, H. (714) 9)

Olfactory system; 2-Deoxyglucose; c-*fos*; Neuronal plasticity; Acetylcholine (Sallaz, M. (721) 66)

Visual cortex; Glutamate; Synaptic plasticity; Calcium; Imaging; Synergy; Nonlinear interaction (Yang, B. (721) 181)

Acetylcholine; Analgesia; Atropine; Intrathecal; Methysergide; Naloxone; Serotonin; Spinal cord; Yohimbine (Fang, F. (722) 95)

Brainstem; Immunocytochemistry; Nitric oxide synthase; Rat (Simonian, S.X. (732) 247)

Dialysis; Na,K-ATPase; Non-exocytotic release; Ouabain; Pargyline (Yamazaki, T. (737) 343)

Lumbar spinal cord; Ventral horn; Microdialysis; Transmitter release; Neurotoxin; Electrolytic lesion; Rat (Leanza, G. (738) 281)

Striate cortex; Lateral geniculate nucleus; Adrenergic receptor; Development; Synaptic plasticity (Muguruma, K. (740) 131)

Immunotoxin; Saporin; Locus coeruleus; Lesion; Rat (Wrenn, C.C. (740) 175)

Heart rate; Autonomic nervous system; Stress; Medial frontal cortex; Agranular insular cortex; Dopamine; β-Adrenoceptor (Funk, D. (741) 220)

In vivo microdialysis; Brain stimulation; Rat; Neurotransmitter release (Florin-Lechner, S.M. (742) 89)

Red nucleus; α_2-Adrenoceptor; β-Adrenoceptor; Electrophysiology; Microiontophoresis (Ciranna, L. (743) 284)

Noradrenaline release
Calcium influx; Neuronal culture; Microfluorimetry (Doležal, V. (721) 101)

Hippocampal slice; Sodium nitroprusside; Dithiothreitol; Cyclic GMP (Satoh, S. (733) 167)

Cerebral ischemia; Microsphere embolism; Synaptosome; Calcium ion influx; Noradrenaline uptake; Rat (Hayashi, H. (737) 64)

Presynaptic nicotinic receptor; Intraterminal calcium; Sympathetic neuron; Calcium channel (Doležal, V. (740) 75)

Noradrenaline uptake
Cerebral ischemia; Microsphere embolism; Synaptosome; Calcium ion influx; Noradrenaline release; Rat (Hayashi, H. (737) 64)

Noradrenergic A_2 cell group
Adrenergic C_2 cell group; Dorsal vagal complex; Angiotensin II; Circumventricular organ; Baroreceptor reflex; Central cardiovascular regulation (Ciriello, J. (726) 227)

Noradrenergic neuron
Receptor autoradiography; [^{125}I]*p*-Iodoclonidine; Morphometry; Neuromelanin (Klimek, V. (741) 263)

Noradrenergic system
Social isolation stress; Mouse; Pentobarbital sleep; Corticotropin releasing factor (CRF); Neurosteroid (Matsumoto, K. (708) 1)

Nor-binaltorphimine
Quinelorane; Deafferentation; κ Opioid receptor; U-50,488; Prolactin (Durham, R.A. (732) 113)

Opioid receptor; Cell division; Central nervous system maturation; Neuroglia; Drug abuse; Endogenous opioid system; U69593; U50488H; Fura-2; Intracellular calcium; Nifedipine; Thapsigargin (Gurwell, J.A. (737) 175)

Action potential shortening vs. prolongation; μ-/δ-/κ- vs. ϵ-opioid receptors; β-Funaltrexamine; Naltrindole; Dorsal root ganglion neuron (Crain, S.M. (741) 275)

Norepinephrine
Starvation; Hypothalamus; Heart; Sympathetic nervous system; Rat (Gotoh, M. (706) 351)

Brain-derived neurotrophic factor; Dopamine; Serotonin; Raphe nucleus; Periaqueductal gray; Hippocampus; Cortex; Nucleus accumbens; Hypothalamus; Substantia nigra (Siuciak, J.A. (710) 11)

Vasopressin; Oxytocin; Prolactin; Conditioned fear; Novelty stress; Motor activity; Noxious stimulus (Onaka, T. (713) 261)

Ventrolateral medulla; Paragigantocellularis; Opiate withdrawal (Van Bockstaele, E.J. (718) 61)

β(25-35); Locus coeruleus; Spatial learning (Chen, S.-Y. (720) 54)

Immobilization stress; Brain microdialysis; Hippocampus; Acetylcholine; Glucose; Epinephrine (Tajima, T. (720) 155)

Locus coeruleus; Selective breeding; Swim test; Animal model of depression; Dopamine (Scott, P.A. (725) 217)

Clonidine; Idazoxan; Locus ceruleus; Microinfusion; Amygdala; Kindling (Shouse, M.N. (731) 203)

Ventral medulla; Opiate; Withdrawal; Vigilance; Excitatory transmission (Van Bockstaele, E.J. (732) 223)

2-Deoxyglucose; Hyperglycemia; Hypothalamus; Microdialysis; Acetylcholine; Pentobarbital; 6-Hydroxydopamine (Takahashi, A. (734) 116)

Dopamine; DSP-4; Methamphetamine; Neurotoxic threshold; Nigrostriatal pathway (Fornai, F. (735) 349)

Nitric oxide; *N*-Methyl-D-aspartate; Sodium nitroprusside; Estrogen; Progesterone; Hypothalamus; Preoptic area (Chu, H.-P. (741) 60)

Dopamine; Locus coeruleus; Nigrostriatal; Uptake; Transporter; Neurotoxicity (Dluzen, D.E. (741) 215)

Monoamine; Serotonin; Dopamine; Salmon; Development (Ebbesson, S.O.E. (742) 339)

Norepinephrine synthesis
Neuroimmunomodulation; Circadian rhythm; Sympathetic nervous system; Parasympathetic nervous system; Submaxillary lymph node; Ornithine decarboxylase; Norepinephrine uptake; Choline uptake; Acetylcholine synthesis; Superior cervical ganglion; Chorda tympani (Cardinali, D.P. (711) 153)

Norepinephrine uptake
Neuroimmunomodulation; Circadian rhythm; Sympathetic nervous system; Parasympathetic nervous system; Submaxillary lymph node; Ornithine decarboxylase; Norepinephrine synthesis; Choline uptake; Acetylcholine synthesis; Superior cervical ganglion; Chorda tympani (Cardinali, D.P. (711) 153)

Noribogaine
Ibogaine; Morphine; Cocaine; Drug self-administration; Microdialysis; Dopamine (Glick, S.D. (713) 294)

Ibogaine; Phosphoinositide hydrolysis (Rabin, R.A. (731) 226)

Morphine; Antinociception; Ibogaine (Bagal, A.A. (741) 258)

Northern blot
Cloning; Selective vulnerability; Human brain; Energy metabolism; Alzheimer's disease (Fukuyama, R. (713) 290)

Northern blot analysis
Ca^{2+}/calmodulin-dependent protein kinase I; In situ hybridization; Development; Rat brain (Sawamura, Y. (706) 259)

Fetal alcohol syndrome; Neurotrophin; Nerve growth factor receptor; Cell culture; PC12; Nerve growth factor binding study; Immunoprecipitation (Luo, J. (737) 34)

NOS
Identified neuron; Central nervous system; Leech; *Hirudo medicinalis*; Annelid; Invertebrate (Leake, L.D. (723) 115)

Novelty
Prefrontal cortex; Dopamine release; Microdialysis; Stress; Arousal; Handling; Food consumption (Feenstra, M.G.P. (742) 17)

Novelty-exploration test
Cocaine; Maternal exposure; Open field; Rat (Giustino, A. (728) 149)

Novelty stress
Norepinephrine; Vasopressin; Oxytocin; Prolactin; Conditioned fear; Motor activity; Noxious stimulus (Onaka, T. (713) 261)

Noxious stimulus
Norepinephrine; Vasopressin; Oxytocin; Prolactin; Conditioned fear; Novelty stress; Motor activity (Onaka, T. (713) 261)

Nociception; Pain; Antinociception; Analgesia; Spinal reflex; Spinal cord (Romita, V.V. (720) 45)

5-N substituted amiloride analog
Amiloride; Na^+/H^+ antiporter; Methylisobutyl amiloride; Intracellular acid-base balance (Lin, C.-W. (731) 108)

Nuclear factor-κB
Immunohistochemistry; Alzheimer's disease; Human brain; Neuron; Hippocampal formation; Cerebral cortex (Terai, K. (735) 159)

Nuclear magnetic resonance
Brain; Phosphocreatine; ATP (Tsuji, M.K. (707) 146)

Trauma; Brain injury (Heath, D.L. (738) 150)

Nuclear protein
Cyclin-dependent kinase; Immunohistochemistry; Purkinje cell; Trigeminal ganglia; Central nervous system; Peripheral nervous system (Ino, H. (732) 179)

Nucleolar organizer region
Tuberomamillary nucleus; AgNOR; Estrous cycle; Hormonal manipulation; Activational effect (González-González, S. (736) 1)

Nucleolus-like body
Cone pedicle; Horizontal cell; Synaptic plasticity; Dopamine; Light- and dark-adaptation; Efferent fiber (De Juan, J. (707) 213)

Nucleoside
Thymidine; Perfused brain; Blood–brain barrier; Blood–cerebrospinal fluid barrier; Transport; Carrier-mediated (Thomas née Williams, S.A. (741) 230)

Nucleus
Closed head injury; Head trauma; Apoptosis; Cell death; Ca/Mg-dependent endonuclease; DNA fragmentation (Pravdenkova, S.V. (729) 151)

Nucleus accumbens
Microdialysis; Dopamine; Ethanol; Strain difference; Lewis rat; Fischer 344 rat (Mocsary, Z. (706) 194)

Conditioned place preference; Ventral pallidum; Reward; Locomotor activity; Cocaine; Amphetamine; Dopamine; Procaine (Gong, W. (707) 64)

APEC; Adenosine; Amphetamine; c-Fos; CHA; Striatum (Turgeon, S.M. (707) 75)

Cerebral laterality; Antidepressant drug; Biogenic amine; Medial prefrontal cortex; Striatum (Carlson, J.N. (707) 122)

Brain-derived neurotrophic factor; Norepinephrine; Dopamine; Serotonin; Raphe nucleus; Periaqueductal gray; Hippocampus; Cortex; Hypothalamus; Substantia nigra (Siuciak, J.A. (710) 11)

Stress; Dopamine; Laterality; 6-Hydroxydopamine; Medial prefrontal cortex; Striatum (Carlson, J.N. (711) 1)

Acetylcholine; Dopamine; Glutamate; Iontophoresis; Striatum; Single-unit recording in ambulant rats (Kiyatkin, E.A. (713) 70)

Cocaine; Heroin; Self-administration; Initiation phase; Motivational aspects; Dopamine; 6-Hydroxydopamine (Gerrits, M.A.F.M. (713) 114)

Ethanol; Serotonin; Glutamate; Microdialysis; Prefrontalcortex (Selim, M. (716) 157)

NMDA receptor/glycine site; Cocaine; Locomotor activity; Sensitization (Khan, M.A. (719) 198)

Dopamine; Stress; Frontal cortex; Striatum; Microdialysis; Aggression; Social interaction (Tidey, J.W. (721) 140)

Sensorimotor gating; Prepulse inhibition; Startle; Schizophrenia (Wan, F.-J. (722) 168)

Alcohol; Frontal lobe; Prefrontal cortex; Frontal cortex brain lesion; Serotonin; Dopamine; Raphe; Sucrose fading; Biological basis of reinforcement (Deckel, A.W. (723) 70)

Memory; Radial-arm maze; Hippocampus; Nicotinic; Muscarinic; Scopolamine; Mecamylaine (Kim, J.S. (725) 231)

Cocaine; Dopamine somatodendrites; Dopamine D_2 autoreceptors; Ventral tegmental area; Microdialysis (Chen, S.-Y. (729) 294)

Ethanol; Taurine; Glutamate; γ-Aminobutyric acid; Microdialysis (Dahchour, A. (735) 9)

Amisulpride; Nafadotride; Antipsychotic; Locomotor activity (Barik, S. (737) 347)

Subpallidal area; Ventral tegmental area; Single unit recording; Dextran-conjugated-rhodamine tracer; Limbic-motor integration (Wu, M. (740) 151)

Cocaine; Dopamine; Prenatal; Frontal cortex; Microdialysis; Mesolimbic (Keller Jr., R.W. (742) 71)

Haloperidol; Buspirone; 5-HT_{1A} receptor; c-*Fos*; Striatum; Immunohistochemistry; Lesopitron (E-4424) (Palacios, G. (742) 141)

Nucleus ambiguus
Atrioventricular conduction; Cardiac rate; Glutamate; Immunocytochemistry; Histochemistry; Retrograde transport; Tachykinin; Vagus nerve (Massari, V.J. (715) 197)

Heart; Medulla; Vagus; Parasympathetic (Panneton, W.M. (738) 342)

Nucleus basalis
AMPA; Receptor; Cholinergic; Glutamate; Human; Aging; Alzheimer's disease (Ikonomovic, M.D. (716) 229)

Choline acetyltransferase; Septum; Diagonal band of Broca; Striatum; Alzheimer's disease (Gibbs, R.B. (720) 61)

Nerve growth factor; Regeneration; Cholinergic; Blood-brain barrier; Excitotoxicity (Charles, V. (728) 193)

Nucleus basalis magnocellularis
Acetylcholine; Rat; Lesion; Ablation; Palmitate; Neuroplasticity; Membrane; Remodeling; Alzheimer disease; Phospholipid; Phosphatidylcholine (De Micheli, E. (735) 36)

Nucleus of solitary tract
Fasting; Immobilization; Stress; Estrogen receptor; Paraventricular nucleus (Estacio, M.A.C. (717) 55)

Taste; Fos immunohistochemistry; Chemotopy (Harrer, M.I. (711) 125)

Paraventricular nucleus of the hypothalamus; Supraoptic nucleus; Cardiovascular regulation; Subfornical organ; Anteroventral third ventricle; Organum vasculosum of the laminae terminalis (Hochstenbach, S.L. (713) 17)

Nucleus prepositus hypoglossi
Acetylcholine; γ-Aminobutyric acid; Optokinetic reflex; Electron microscopy; Crest synapse (Caffé, A.R. (724) 136)

Nucleus raphe magnus
Pain; Analgesia; ON cell; OFF cell; Blood pressure (Thurston, C.L. (717) 81)

Antinociception; Nucleus reticularis gigantocellularis pars α; $GABA_B$ receptor; GABA; CGP 35348 (Thomas, D.A. (718) 129)

Nucleus reticularis gigantocellularis pars α
Antinociception; Nucleus raphe magnus; $GABA_B$ receptor; GABA; CGP 35348 (Thomas, D.A. (718) 129)

Nucleus tractus solitarii
Galanin; Locus coeruleus; Baroreceptor reflex response; Galanin antiserum; Rat (Shih, C.-D. (721) 76)

Neurokinin B; Dorsal nucleus of the vagus nerve; Area postrema; Synapse (Carpentier, C. (734) 327)

GABA; Glycine; Inhibitory amino acid; Immunohistochemistry; Sheep (Sweazey, R.D. (737) 275)

Nucleus tractus solitarius
Vagus nerve; Ventromedial hypothalamic nucleus; Area postrema; Pancreas; Ovariectomy; Cholecystokinin receptor; Devazepide; L365,260; Food intake (Geary, N. (179) 179)

Neuropeptide FF; Receptor; Cardiovascular parameter; Baroreceptor reflex (Laguzzi, R. (711) 193)

Area postrema; Baroreflex; Brain slice; Integration; Intracellular recording (Cai, Y. (724) 121)

Hypoxia; Chemoreceptor pathway; Catecholaminergic nuclei; Baroreceptor pathway; Tyrosine hydroxylase; Quantitative radioimmunohistochemistry (Pépin, J.L. (733) 1)

Adenosine receptor; Serotonin; CGS 21680; Adenosine A_{2a} receptor; Receptor desensitization (Barraco, R.A. (733) 155)

Fos; Cold; CRF; Dorsal motor nucleus of the vagus; Raphe pallidus; Gastric erosion; Central amygdala; Paraventricular nucleus of the hypothalamus (Wang, L. (736) 44)

Taste; Gustatory; Anatomy; DiI; Biotinylated dextran; Projection neuron (Williams, J.B. (737) 231)

Fos-like immunoreactivity; c-*fos* oligonucleotide; Baroreceptor reflex; Rat (Shih, C.-D. (738) 39)

c-Fos; Learning; Lithium chloride; Aversion conditioning (Schafe, G.E. (741) 109)

Nucleus tractus solitarius (nTS)
Bradykinin; Baroreflex; Blood pressure; HOE-140; Bradykinin antagonist; Baroreceptor control of heart rate (Caligiorne, S.M. (720) 183)

Nucleus tuberalis lateralis (NTL)
Human hypothalamus; Huntington's disease; Somatostatin; Microwave pretreatment (Timmers, H.J.L.M. (728) 141)

***N*ω-Nitro-L-arginine**
Hippocampal slice; Hemoglobin; Synaptic transmission; CA1 pyramidal neuron; Stroke; Head injury; Cerebrovascular diseases (Yip, S. (713) 134)

Nutrition
Lysine deficiency; Gustation; Nutritional; NaCl (Tabuchi, E. (739) 139)

Nutritional
Lysine deficiency; Gustation; Nutrition; NaCl (Tabuchi, E. (739) 139)

O

Occipital cortex
Constructional apraxia; Praxis; Dystrophic neurite; AT8; Neurofibrillary tangle; β-Amyloid; Parietal lobe (Nielson, K.A. (741) 284)

O_2 consumption
Carotid body; Ca^{2+}-store depletion; Hypoxic response; Thapsigargin (Lahiri, S. (709) 141)

Octreotide
Hippocampus; Pirenzepine; Plasticity; Somatostatin receptor (Nakata, A. (723) 135)

Ocular dominance column
Zif268; Immediate early gene; Visual system; Development; Plasticity; Primate (Silveira, L.C.L. (732) 237)

Ocular muscle
Neuromuscular junction; Synaptic transmission; Nitric oxide; Cholinergic transmission; Skeletal muscle; Acetylcholine receptor (Kusner, L.L. (730) 238)

Oculomotor nerve
Capsaicin; Neurokinins; III group afferent; IV group afferent; Muscle ergoceptor; Muscle nociceptor; Dorsal root; Ventral root (Della Torre, G. (713) 223)

Odorant receptor
Odor discrimination; Single olfactory neuron; Whole-cell patch clamp; Ciliary recording; Bullfrog; Cross-adaptation (Kashiwayanagi, M. (738) 222)

Odor discrimination
Odorant receptor; Single olfactory neuron; Whole-cell patch clamp; Ciliary recording; Bullfrog; Cross-adaptation (Kashiwayanagi, M. (738) 222)

Odor preference
DSP-4; Hippocampus; Monoamine; Olfactory bulb; Olfactory learning; Social stress (Cornwell, C.A. (711) 26)

OFF cell
Pain; Analgesia; ON cell; Nucleus raphe magnus; Blood pressure (Thurston, C.L. (717) 81)

Non-steroidal antiinflammatory drug; Dipyrone; Naloxone; Opiates; Periaqueductal gray; On-cell; Antinociception; Tail flick (Tortorici, V. (725) 106)

Off-vertical axis rotation
Otolith; Medial medullary reticular neuron; Bidirectional response sensitivity; Spatial property; Response dynamic; Cat (Chan, Y.S. (732) 159)

Otolith; Vestibular nuclear neuron; Spontaneous discharge; Bidirectional response sensitivity; Rat (Lai, C.H. (739) 322)

8-OH-DPAT
Microdialysis; WAY 100635; SCH 23390; SCH 39166; Ventral tegmental area (Consolo, S. (707) 320)

Estrogen; Blood pressure; Heart rate; Serotonin receptor subtype; $5\text{-}HT_{1A}$ receptor; Gender difference; Parasympathetic nervous system; Estradiol (Alper, R.H. (716) 224)

$5\text{-}HT_{1A}$; Benzodiazepine; Amygdala; Midazolam; Plus-maze; Social interaction (Gonzalez, L.E. (732) 145)

Aggression; Corticosterone; $5\text{-}HT_{1A}$ mRNA; Hippocampus; Wild house mice (Korte, S.M. (736) 338)

Serotonin; Quipazine; Buspirone; Melatonin; Circadian rhythms (Kennaway, D.J. (737) 301)

Ipsapirone; BMY 7378; Spiperone; Electroencephalography; Rhythmic slow activity; Serotonergic neuronal activity; REM sleep; Cat (Marrosu, F. (739) 192)

7-OH-DPAT
Acetylcholine, striatal; Cyclic AMP; D_1/D_2 dopamine activity (Sethy, V.H. (733) 41)

Okadaic acid
Glial fibrillary acidic protein; Dephosphosphorylation; Microcystin-LR; Calyculin A; Hippocampal slice (Vinadé, L. (732) 195)

Olfaction
Colchicine; Dentate gyrus; Hippocampus; Neocortex (Heale, V.R. (712) 213)

Desensitization; Adaptation; Habituation; Chemosensory event-related potential (Hummel, T. (717) 160)

Reinnervation; Olfactory marker protein; Olfactory system; OMP; Age-related; Plasticity; Behavioral recovery (Evers, S.M. (724) 129)

Olfactory bulb
DSP-4; Hippocampus; Monoamine; Odor preference; Olfactory learning; Social stress (Cornwell, C.A. (711) 26)

Neuronal plasticity; GAP-43; Quantitative immunohistochemistry; Aging; Hippocampus; Cerebellum; Cingulate cortex (Casoli, T. (714) 111)

Immediate early gene; Learning; Olfactory preference; Immunohistochemistry; Development (Woo, C.C. (716) 149)

Lectin; Glycoconjugate; Histochemistry; Olfactory receptor; Vomeronasal receptor; Microglia; Turtle (Franceschini, V. (725) 81)

Luteinizing hormone-releasing hormone; Gonadotropin-releasing hormone; Olfactory marker protein; Peripherin; Rat; Immunocytochemistry; Di-I (Santacana, M. (734) 337)

Olfactory bulbectomy
Circadian rhythm; Fluoxetine; Wheel-running activity; Mouse (Possidente, B. (713) 108)

Olfactory epithelium
Carbonic anhydrase; Enzyme histochemistry; Guinea pig (Okamura, H. (728) 263)

Olfactory learning
DSP-4; Hippocampus; Monoamine; Odor preference; Olfactory bulb; Social stress (Cornwell, C.A. (711) 26)

Olfactory-limbic system
Gene expression; Molecular cloning; Type 1 astrocyte; Intermediate filament; Intermediate filament-associated protein; Hippocampus (Schaar, D.G. (721) 217)

Olfactory marker protein
Olfaction; Reinnervation; Olfactory system; OMP; Age-related; Plasticity; Behavioral recovery (Evers, S.M. (724) 129)

Luteinizing hormone-releasing hormone; Gonadotropin-releasing hormone; Peripherin; Olfactory bulb; Rat; Immunocytochemistry; Di-I (Santacana, M. (734) 337)

Olfactory pathway
Ventral striatum; Olfactory tubercle; Gonadotropin; Testosterone; Reproduction (Gomez, D.M. (723) 148)

Olfactory preference
Immediate early gene; Learning; Immunohistochemistry; Development; Olfactory bulb (Woo, C.C. (716) 149)

Olfactory receptor
Lectin; Glycoconjugate; Histochemistry; Vomeronasal receptor; Olfactory bulb; Microglia; Turtle (Franceschini, V. (725) 81)

Olfactory system
Immediate-early gene; *N*-Methyl-D-aspartate; Mitral cell; c-*fos*; Rat (Wilson, D.A. (719) 62)

2-Deoxyglucose; c-*fos*; Neuronal plasticity; Noradrenaline; Acetylcholine (Sallaz, M. (721) 66)

Amphibian; Frog; Accessory olfactory system; Extra-bulbar olfactory system; Acoustic system; Lectin; Soybean agglutinin (Meyer, D.L. (722) 222)

Anamniote; NADPH-diaphorase; Nitric oxide synthase (Porteros, A. (724) 67)

Olfaction; Reinnervation; Olfactory marker protein; OMP; Age-related; Plasticity; Behavioral recovery (Evers, S.M. (724) 129)

Olfactory tubercle
Corpus striatum; Parkinson's disease; Sex differences; Orchidectomy; Estrogen (Dluzen, D.E. (715) 113)

Ventral striatum; Gonadotropin; Testosterone; Reproduction; Olfactory pathway (Gomez, D.M. (723) 148)

Dopamine; Acetylcholine; Caudate nucleus (Guevara, B.H. (733) 105)

Oligodendroglial cell
Apoptosis; DNA fragmentation; Neuroglial cell; Terminal transferase; Lectin histochemistry; Hypomyelination (Vela, J.M. (712) 134)

Oligodendrocyte
Prostanoid receptor; Astrocyte; Microglia; Reverse transcriptase-polymerase chain reaction; Messenger RNA expression; Cell differentiation (Kitanaka, J. (707) 282)

Aluminum; Transferrin; Transferrin receptor; Iron; Manganese (Golub, M.S. (719) 72)

Glial cell; Potassium; Na/K pump; Patch clamp; N20.1 cell line; Potassium homeostasis (Dobretsov, M. (724) 103)

Ischemia; Transferrin; Ferritin; Delayed neuronal death; Astrocyte; Microglia; Immunocytochemistry (Ishimaru, H. (726) 23)

Intracerebral transplantation; Migration; [^{3}H]thymidine; Astroglia; Pericyte (Lundberg, C. (737) 295)

Oligodendroglia
Hippocampal cholinergic neurostimulating peptide; HCNP localization; Immunohistochemistry; Central nervous system; Neuron (Mitake, S. (706) 57)

OMP
Olfaction; Reinnervation; Olfactory marker protein; Olfactory system; Age-related; Plasticity; Behavioral recovery (Evers, S.M. (724) 129)

ON cell
Pain; Analgesia; OFF cell; Nucleus raphe magnus; Blood pressure (Thurston, C.L. (717) 81)

Non-steroidal antiinflammatory drug; Dipyrone; Naloxone; Opiates; Periaqueductal gray; Off-cell; Antinociception; Tail flick (Tortorici, V. (725) 106)

Ondansetron
ACh release; 5-HT_3 receptor; Entorhinal cortex; Striatum; Bicuculline (Ramírez, M.J. (712) 274)

One-dimensional strobomap
Somatosensory cortex; Anesthetized rat; Periodic medial lemniscus stimulation; Field potential; Phase-locking; Chaos; Strange attractor; Period doubling-bifurcation; Correlation dimension; Lyapunov exponent (Ishizuka, S. (723) 46)

One-trial inhibitory avoidance
Cocaine; Memory; Amygdala; Lesion (Cestari, V. (713) 286)

Ontogenesis
Cochlea; Hair cell; Stereocilia bundle; Rat (Zine, A. (721) 49)

Ontogeny
Development; Membrane binding; NMDA receptor; Agonist; Antagonist; Heterogeneity (Enomoto, R. (723) 100)

Oocyte
Epilepsy; Potassium channel; *Xenopus laevis*; Pentylenetetrazol; Seizure (Madeja, M. (722) 59)

OPC-31260
Antidiuretic hormone; Brain vasopressin receptor; Vasopressin antagonist; 1-Desamino-8-D-arginine vasopressin; Increased plasma osmolality (Liu, H.-W. (719) 14)

Open field
Chromosome; Serotonin (5-HT); 5-HT_{1A}; 5-HT_{1B}; 5-HT_{2A}; 5-HT_{2C}; Mapping (Clément, Y. (709) 229)

Methylmalonic acid; Organic acidemia; Neurotoxicity; Convulsion; Seizure; Striatum; Excitotoxicity; Rotational behavior (De Mello, C.F. (721) 120)

Cocaine; Maternal exposure; Novelty-exploration test; Rat (Giustino, A. (728) 149)

Transgenic rat; TGR(mREN2)27 rat; Behaviour; Elevated X-maze (Wilson, W. (729) 1)

Open-field behavior
5α-Reductase; Brain; Pregnancy; Prenatal development; Neurosteroids; Rodent; Finasteride (Proscar) (Lephart, E.D. (739) 356)

Open-field test
Lipopolysaccharide; Depression; Saccharin preference; Sexual behavior; Anorexia; Body weight; Social exploration; Tricyclic antidepressant; Imipramine (Yirmiya, R. (711) 163)

Operant behavior
Phencyclidine; Nitric oxide; N^{ω}-Nitro-L-arginine methyl ester; 7-Nitroindazole; Discriminative stimulus; Drug discrimination; Catalepsy (Jewett, D.C. (715) 25)

Operant training
Fixed-ratio discrimination learning; Neonatal 6-hydroxydopamine; Striatal catecholamine; Cortical catecholamine; Dopaminergic neuronal plasticity (Stodgell, C.J. (713) 246)

Opiate
Interleukin-1β immunoreactivity; Hypothalamus; Immunocytochemistry (Patel, N.A. (712) 340)

Intracellular Ca^{2+}; Fura-2; Synergy; Differentiation; Synchronization (Sarne, Y. (722) 203)

Norepinephrine; Ventral medulla; Withdrawal; Vigilance; Excitatory transmission (Van Bockstaele, E.J. (732) 223)

Morphine tolerance; Opiate tolerance; Dizolcipine; NMDA receptor; Glutamate; Intracellular calcium (Garcia, M.M. (734) 123)

Opiate receptor
Dopamine D_2 receptor gene; Alcoholism; Naloxone; Frontal cortex; Caudate nucleus (Ritchie, T. (718) 193)

Opioid; Phosphorylation; Tolerance; Dependence; cAMP; Protein kinase C (Wang, L. (723) 61)

Sodium nitroprusside; K^+ current; *Aplysia* neurons (Sawada, M. (740) 124)

Opiate receptor-mediated response
Ganglion cell; Met-enkephalin response; Synaptic activity, prolonged; Stimulus train (Zhang, C. (710) 1)

Opiates
Non-steroidal antiinflammatory drug; Dipyrone; Naloxone; Periaqueductal gray; Off-cell; On-cell; Antinociception; Tail flick (Tortorici, V. (725) 106)

Opiate tolerance
Morphine tolerance; Opiate; Dizolcipine; NMDA receptor; Glutamate; Intracellular calcium (Garcia, M.M. (734) 123)

Opiate tolerance and dependence
Adenylate cyclase supersensitivity; Stimulatory signal transduction; μ Opioid receptor; PGE_1 receptor; Stimulatory G protein; Morphine; SH-SY5Y cell (Ammer, H. (707) 235)

Opiate withdrawal
Norepinephrine; Ventrolateral medulla; Paragigantocellularis (Van Bockstaele, E.J. (718) 61)

Periaqueductal gray; proTRH; Hybridization histochemistry in situ; Immunohistochemistry; Rat (Légrádi, G. (729) 10)

Opioid
Aging; Hippocampus; Receptor binding; Diprenorphine; Enkephalin (Nagahara, A.H. (707) 22)

Autonomic; δ; Enkephalin; ICI 154,129; μ; Naloxone; Solitarius; Vagal (Feldman, P.D. (709) 331)

Hibernation; Dynorphin A; β-Endorphin; Septum (Cui, Y. (710) 271)

c-Fos; Morphine; Naltrexone; Withdrawal; Brain; Guinea-pig (Chahl, L.A. (717) 127)

Ventral tegmental area; Naltrexone methylbromide; Formalin test; Dopamine; Footshock stress; Analgesia (Altier, N. (718) 203)

μ Opioid receptor; Morphine analgesia; Glucoprivation; Angiotensin II (Leventhal, L. (719) 78)

Fat; Sucrose; Highly palatable diet; Opioid peptide; Opioid mRNA (Welch, C.C. (721) 126)

Antinociception; Substance P; NMDA; Intrathecal administration; Spinal cord (Masuyama, T. (722) 200)

Phosphorylation; Tolerance; Dependence; cAMP; Opiate receptor; Protein kinase C (Wang, L. (723) 61)

G-protein; Median eminence; Dopamine; DOPAC; DOPA (Lin, J.-Y. (727) 182)

Ventral tegmental area; Sexual behavior; Motivation; Reward; Anticipatory behavior (Van Furth, W.R. (729) 20)

Preproenkephalin; mRNA; Nitrous oxide; Hypothalamus; Met-enkephalin (Agarwal, R.K. (730) 47)

Morphine; U50,488H; Fos; Brain; Reward; Guinea-pig (Bot, G. (731) 45)

Tachykinin; Substance P; *p*-Chlorophenylalanine; Basal ganglia; $5\text{-}HT_2$ receptor; $5\text{-}HT_{1A}$ receptor (Walker, P.D. (732) 25)

Maternal behavior; Mesolimbic; Ventral tegmental area; Naltrexone methobromide; Morphine; Rat (Thompson, A.C. (743) 184)

κ-Opioid agonist
Cerebral blood flow; Cerebral ischaemia; Excitotoxicity; Glutamate; Microdialysis; Neuroprotection (MacKay, K.B. (712) 329)

Opioid binding
Quantitative autoradiography; Chicken brain; Food restriction (Stewart, M.G. (742) 343)

Opioid mRNA
Opioid; Fat; Sucrose; Highly palatable diet; Opioid peptide (Welch, C.C. (721) 126)

Opioid peptide
Corticotropin-releasing factor; c-*fos*; In situ hybridization; Hypothalamic–pituitary–adrenal axis (Wang, X.-Q. (707) 189)

Opioid; Fat; Sucrose; Highly palatable diet; Opioid mRNA (Welch, C.C. (721) 126)

Dense-core vesicle; Dentate gyrus; Mossy fiber; Electron microscopy; Learning and memory (Commons, K.G. (724) 1)

Astrocyte; Glia; Neuron–glia interaction; Glucocorticoid; Cyclic AMP; Preproenkephalin (McMillian, M.K. (730) 67)

Gastropod; Immunocytochemistry; Identified neuron; Neuronal map; High-performance liquid chromatography; Radioimmunoassay; Heart (Ewadinger, N.M. (737) 1)

Opioid receptor
Food restriction; Parabrachial nucleus (Wolinsky, T.D. (706) 333)

Genetic control; Inbred mouse strain; Caudate-putamen; Adenylyl cyclase; Dopamine D_1 receptor; Adenosine A_{2a} receptor; Striatonigral neuron; Striatopallidal neuron (Noble, F. (716) 107)

Neuropeptide Y; Neuropeptide Y receptor; Antinociception; Feeding; α_2-Adrenoceptor; Mouse (Broqua, P. (724) 25)

Orphanin FQ; Nociceptin; Orphan receptor; Conditioned place preference (Devine, D.P. (727) 225)

Cell division; Central nervous system maturation; Neuroglia; Drug abuse; Endogenous opioid system; U69593; U50488H; *Nor*-binaltorphimine; Fura-2; Intracellular calcium; Nifedipine; Thapsigargin (Gurwell, J.A. (737) 175)

Diabetes; Medial preoptic area; Habenula (Wolinsky, T.D. (738) 167)

3,4-Diaminopyridine; Dopamine release; Acetylcholine release; Rabbit caudate nucleus; Nitric oxide; Autoreceptor; Adenosine receptor (Ries, V. (743) 303)

δ-Opioid receptor
Autoradiography; Receptor subtype; [^{3}H]DPDPE; [^{3}H]DSLET; Rat brain (Hiller, J.M. (719) 85)

δ_2 Opioid receptor
Analgesia; Morphine; β-Endorphin; Amygdala; Periaqueductal gray; μ Opioid receptor (Pavlovic, Z.W. (741) 13)

κ Opioid receptor
Quinelorane; Deafferentation; U-50,488; Norbinaltorphimine; Prolactin (Durham, R.A. (732) 113)

μ Opioid receptor
Opiate tolerance and dependence; Adenylate cyclase supersensitivity; Stimulatory signal transduction; PGE_1 receptor; Stimulatory G protein; Morphine; SH-SY5Y cell (Ammer, H. (707) 235)

Opioid; Morphine analgesia; Glucoprivation; Angiotensin II (Leventhal, L. (719) 78)

Cell division; Endogenous opioid system; Neural development; Intracellular calcium; Dantrolene; Nifedipine; Thapsigargin; Fura-2 (Hauser, K.F. (720) 191)

Antinociception; c-Fos; Spinal cord; Morphine; Carrageenin; β-Funaltrexamine (Honoré, P. (732) 242)

Analgesia; Morphine; β-Endorphin; Amygdala; Periaqueductal gray; δ_2 Opioid receptor (Pavlovic, Z.W. (741) 13)

Opioid receptor antagonist
ICI-174 864; NK cell activity; Conditioning; Cyprodime hydrobromide (cyprodime HBr); Nor-binaltorphimine dihydrochloride (nor-BNI) (Hsueh, C.-M. (737) 263)

μ Opioid receptor immunocytochemistry
Cell division; Endogenous opioid system; PL017; Neural development; Drug abuse (Knapp, P.E. (743) 341)

Opioid receptors
Pain; Medullary dorsal horn; Trigeminal nucleus caudalis; Antinociception; Nociception (Wang, X.-M. (739) 235)

μ Opioid receptors
Estradiol; Ventral premammillary nucleus; Dorsal premammillary nucleus; Hypothalamus (Brown, L.L. (742) 347)

Opsin
Development; Neural retina; Ganglion cell; Rod photoreceptor; bFGF; Retinoic acid; Tissue culture (Zhao, S. (723) 169)

Optical imaging
Arousal; Light reflectance; Sleep; Paraventricular hypothalamus; PVH; PVN; REM; Waking; Slow wave; Neuroendocrine (Kristensen, M.P. (727) 107)

Visual cortex; Neural circuitry; Voltage-sensitive dye; Cooled CCD camera (Tanifuji, M. (738) 83)

Optic nerve
Amino acid; Glutamate; Superior colliculus; Lesion; γ-Glutamyl dipeptide (Li, X. (706) 89)

Optic tectum
Visual system; Development; Projection neuron; Acetylcholine; Cuneiform nucleus (Banfro, F.T. (733) 273)

Optokinetic reflex
Acetylcholine; γ-Aminobutyric acid; Nucleus prepositus hypoglossi; Electron microscopy; Crest synapse (Caffé, A.R. (724) 136)

Orchidectomy
Corpus striatum; Olfactory tubercle; Parkinson's disease; Sex differences; Estrogen (Dluzen, D.E. (715) 113)

ORG 2766
Locomotion; Amygdala; Behavior; Hyperactivity (Van Rijzingen, I.M.S. (717) 200)

Organ culture
Circadian regulation; Oscillator; Melatonin; Pineal; Retina; Photoreception; *Danio (Brachydanio) rerio* (Cahill, G.M. (708) 177)

Organic acidemia
Methylmalonic acid; Neurotoxicity; Open field; Convulsion; Seizure; Striatum; Excitotoxicity; Rotational behavior (De Mello, C.F. (721) 120)

Organotypic slice culture
Receptor desensitization; Cyclothiazide (Arai, A. (716) 202)

Organum vasculosum laminae of the terminalis
Subfornical organ; Median preoptic nuceus; Cardiovascular regulation; Body fluid homeostasis (Ciriello, J. (708) 167)

Organum vasculosum laminae terminalis
Osmoreception; Circumventricular organ; Lamina terminalis; c-*fos* (Bisley, J.W. (720) 25)

Subfornical organ; Angiotensin II; Sodium depletion; Water intake (Rowland, N.E. (728) 90)

Organum vasculosum of the laminae terminalis
Paraventricular nucleus of the hypothalamus; Supraoptic nucleus; Nucleus of the solitary tract; Cardiovascular regulation; Subfornical organ; Anteroventral third ventricle (Hochstenbach, S.L. (713) 17)

Ornithine decarboxylase
Neuroimmunomodulation; Circadian rhythm; Sympathetic nervous system; Parasympathetic nervous system; Submaxillary lymph node; Norepinephrine synthesis; Norepinephrine uptake; Choline uptake; Acetylcholine synthesis; Superior cervical ganglion; Chorda tympani (Cardinali, D.P. (711) 153)

Orphanin FQ
Nociceptin; Orphan receptor; Conditioned place preference; Opioid receptor (Devine, D.P. (727) 225)

Orphan receptor
Orphanin FQ; Nociceptin; Conditioned place preference; Opioid receptor (Devine, D.P. (727) 225)

Transcriptional regulation; Thyroid hormone (Kainu, T. (743) 315)

Orthostatic hypotension
Vestibular sensory system; Somato-autonomic reflex; Autonomic nervous system; Movement; Gravity (Ruggiero, D.A. (743) 294)

Orthostatic restraint
Intracerebroventricular pressure; Motor activity; Antiorthostatic restraint; Rat (Maurel, D. (736) 165)

Oscillation
Visual cortex; Cat; Vision (Molotchnikoff, S. (731) 91)

Oscillator
Circadian regulation; Melatonin; Pineal; Retina; Photoreception; *Danio (Brachydanio) rerio*; Organ culture (Cahill, G.M. (708) 177)

Osmolality
Hypoxia; Hippocampal slice; Cell swelling; CGS-19755; NMDA receptor (Payne, R.S. (723) 210)

Osmoreception
Hypertonic NaCl; Subfornical organ; Supraoptic nucleus; Paraventricular hypothalamus (Han, L. (708) 45)

Circumventricular organ; Lamina terminalis; c-*fos*; Organum vasculosum laminae terminalis (Bisley, J.W. (720) 25)

Osmoreceptor
Dorsal motor nucleus of vagus; Gastric vagus; Hepatic; Portal vein; Water; Hypotonic; Na^+ concentration; Mannitol; Rat (Kobashi, M. (706) 21)

Osmoregulation
Angiotensin receptor; Hypothalamus; Circumventricular organ; Subfornical organ; Adrenal gland; DUP-753; PD-123319; CGP-42112A; Domestic mallard; Drinking; Bird (Schäfer, F. (711) 118)

Neuroendocrinology; Hypothalamo-hypophysial; Neurohypophysis; Fluid balance (Vanhatalo, S. (740) 253)

Osmotic stimulation
Choline; Oxytocin; Muscarinic; Nicotinic; Hemicholinium-3; Hemorrhage (Savci, V. (709) 97)

Osteonectin
Extracellular matrix; Anti-adhesive (Mendis, D.B. (730) 95)

Otolith
Medial medullary reticular neuron; Off-vertical axis rotation; Bidirectional response sensitivity; Spatial property; Response dynamic; Cat (Chan, Y.S. (732) 159)

Vestibular nuclear neuron; Spontaneous discharge; Off-vertical axis rotation; Bidirectional response sensitivity; Rat (Lai, C.H. (739) 322)

Ototoxicity
Hair cell; Regeneration; Drug resistance; Aminoglycoside; Chicken (Hashino, E. (720) 172)

Ouabain
Na^+/K^+-ATPase inhibitor; Excitotoxin; Glutamate receptor agonist; Glutamate receptor antagonist; Neuronal cytotoxicity (Lees, G.J. (714) 145)

Dialysis; Na,K-ATPase; Noradrenaline; Non-exocytotic release; Pargyline (Yamazaki, T. (737) 343)

Outcome
Newborn; Brain injury; Hypoxia; Na^+,K^+-ATPase; Energy metabolism (Rosenkrantz, T.S. (730) 52)

Outer hair cell
Ca-ATPase; Calcium; Cochlea; Hearing; Motility (Zine, A. (721) 1)

Ovariectomized rat
$5\text{-}HT_{2A/2C}$ antagonist; Intact proestrous rat; Lordosis behavior (Uphouse, L. (718) 46)

Ovariectomy
Vagus nerve; Nucleus tractus solitarius; Ventromedial hypothalamic nucleus; Area postrema; Pancreas; Cholecystokinin receptor; Devazepide; L365,260; Food intake (Geary, N. (179) 179)

Prolactin; Rat; Female; Central administration; Food intake; Hyperphagia; Food restriction (Sauvé, D. (729) 75)

Paradoxical sleep; Estrus; REM sleep; Slow wave sleep; Rat; Sexual dimorphism (Fang, J. (734) 275)

Oxidation-reduction (redox)
Brain; Hypoxia; ischemia; Perinatal; Rat (Yager, J.Y. (712) 230)

Oxidative phosphorylation
NADH; Hippocampal slice; Chemical inhibition; Uncoupling; Selective vulnerability; CA1; CA3 (Riepe, M.W. (710) 21)

Oxidative stress
Neuronal culture; Calbindin D_{28K}; Neurodegeneration (Hugon, J. (707) 288)

Astrocyte in culture; Glutathione; Glutathione reductase; Mitochondrion; Ethacrynic acid (Huang, J. (711) 184)

In vivo; Rat brain; Ascorbic acid; Uric acid; Lipid peroxidation; Malonaldehyde; Antioxidant (Waterfall, A.H. (712) 102)

Antioxidant; Brain neuron; *Ginkgo biloba* extract; Hydrogen peroxide (Oyama, Y. (712) 349)

Glutathione reductase; Peroxynitrite; Neurodegeneration (Barker, J.E. (716) 118)

Ethanol; Ganglioside GM_1; Free radical; Glutamate antagonist (Bondy, S.C. (716) 165)

Cerebral ischemia; Reperfusion; Brain; Glutathione; α-Lipoic acid (Panigrahi, M. (717) 184)

Antioxidant enzyme; Neuroleptic drug; Cytotoxicity; PC12 (Behl, C. (717) 193)

Peroxynitrite; Alzheimer's disease; Apolipoprotein E (Matthews, R.T. (718) 181)

NMDA; Flow cytometry; MK-801; Cerebellum; Granule cell; Calcium; Indo-1 (Sureda, F.X. (723) 110)

Ferritin; MPTP; Parkinson's disease; Microglia; Immunohistochemistry (Goto, K. (724) 125)

AF64A; Cholinergic degeneration; Oxygen-free radical (Gulyaeva, N.V. (726) 174)

Advanced glycation end-product; Parkinson's disease; Diffuse Lewy body disease; Immunocytochemistry (Castellani, R. (737) 195)

IMR-32; Cell culture; Neurofilament; SMI31; Ascorbate (Cookson, M.R. (738) 162)

Haloperidol; *bcl-2*; Neuroleptic drug; Cell death; HT22 cell (Lezoualc'h, F. (738) 176)

Aluminum; Confocal laser scanning microscopy; 2,7-Dichlorofluorescin diacetate; Laser microprobe mass spectrometry; Hippocampal neuron; Iron; Reactive oxygen species (Xie, C.X. (743) 271)

Oxotremorine
Acetylcholine; Behavioral inhibition; Dentate gyrus; Freezing; Hippocampus; Presynaptic muscarinic receptor; Septohippocampal cholinergic system; Preweanling rat; Ultrasonic vocalization (Takahashi, L.K. (731) 230)

Restraint; Locomotor activity; Acetylcholine; Muscarinic receptor; Prefrontal cortex; DBA/2 mice (Pullia, D. (743) 333)

Oxygen
Chemoreceptor; Glomus cell; Hypoxia; K current; Sheath cell (Chou, C.-L. (742) 34)

Oxygen free radical
Superoxide dismutase; Ischemia; Excitotoxicity; Huntington's disease; Neurodegeneration; Basal ganglia (Medina, L. (708) 59)

AF64A; Cholinergic degeneration; Oxidative stress (Gulyaeva, N.V. (726) 174)

CuZn-superoxide dismutase; Heat shock protein; Hippocampal CA1 neuron; *hsp*70 mRNA; Transgenic mouse; Transient global cerebral ischemia (Kondo, T. (737) 321)

Oxygen radical
Nerve growth factor; Depolarization; Neuronal death; Chromatin condensation (Kubo, T. (733) 175)

Oxygen tension
N-Methyl-D-aspartate; Brain temperature; Blood flow; Caudate putamen; Ventral hippocampus (Hara, S. (737) 339)

Oxytocin
Choline; Muscarinic; Nicotinic; Hemicholinium-3; Osmotic stimulation; Hemorrhage (Savci, V. (709) 97)

Retrograde degeneration; Vasopressin; Rat brain; Immunocytochemistry (Alonso, G. (711) 34)

Vasopressin; Antiserum; Hippocampus; Septum; Social recognition
(Van Wimersma Greidanus, Tj.B. (713) 153)

Norepinephrine; Vasopressin; Prolactin; Conditioned fear; Novelty stress; Motor activity; Noxious stimulus (Onaka, T. (713) 261)

Hemitransection; Milk ejection burst; Midbrain; Rat (Wang, Y.-F. (719) 203)

Rabbit; Vasopressin; Immunochemistry; Hypothalamus; Pregnancy; Parturition; Estrus; Maternal behavior (Caba, M. (720) 7)

Calretinin; Vasopressin; Supraoptic nucleus; Paraventricular nucleus; Anterior commissural nucleus; Suprachiasmatic nucleus (Arai, R. (735) 154)

Arginine vasopressin; Estrogen; Lactation; Paraventricular nucleus; Progesterone (Thomas, A. (738) 48)

Medial preoptic area; Paraventricular nucleus; Sexual dimorphism; Substantia nigra (Dubois-Dauphin, M. (743) 32)

Oxytocin cell
Paraventricular nucleus; Dorsal penile nerve; Electrical stimulation; Tactile stimulation; Castration; Rat (Yanagimoto, M. (733) 292)

Oxytocin neuron
Uni- or bi- AV3V lesion; c-*fos*; Vasopressin neuron; Dehydration; Angiotensin II (Xu, Z. (713) 36)

P

P70
Anti-P70 antibody; Negative slope resistance; Potassium current; Bursting activity; *Euhadra* neuron (Onozuka, M. (716) 187)

P450
Basal ganglia; Brain; CYP2E1; Immunohistochemistry; NADPH-P450 oxidoreductase; Parkinson's disease (Riedl, A.G. (743) 324)

PACAP
Ischemia; Apoptosis; Astrocyte; Hippocampus; Peptide; Rat (Uchida, D. (736) 280)

Glutamate; Cortical neuron; Cyclic AMP; Cytoprotection; Neurotoxicity (Morio, H. (741) 82)

Pacemaker cells
Stem cell factor; Enteric nervous system; Interstitial cells of Cajal; Gastrointestinal motility (Torihashi, S. (738) 323)

Pacemaker neuron
γ-Aminobutyric acid; Rostro-ventrolateral medulla; Brainstem slice; Intracellular recording; Cardiovascular regulation; Baroreflex (Hayar, A. (709) 173)

PAF
Astrocyte; Nitric oxide; ET-18-OCH_3; Platelet activating factor; CPAF; LPS; BN 50730 (Cardile, V. (715) 98)

PAG neuron
Glycine; Cl^- response; Enkephalin; 2nd messenger; PKA (Min, B.I. (734) 72)

Pain
Galanin; Neuropeptide Y; Nerve injury; Plasticity (Rydh-Rinder, M. (707) 180)

Cutaneous afferent; Spinal convergence; Size principle; Segmental reflex; Voluntary command; Human locomotion (Rossi, A. (714) 76)

Preprotachykinin; Nerve growth factor receptor; mRNA; Dorsal root ganglia; Peripheral inflammation; In situ hybridization (Cho, H.-J. (716) 197)

Reflex facilitation; Hyperalgesia; Central sensitization; Wind-up; Arthritis (Herrero, J.F. (717) 62)

Analgesia; ON cell; OFF cell; Nucleus raphe magnus; Blood pressure (Thurston, C.L. (717) 81)

Trigeminal; Nociception; Analgesia; Dorsal horn; *N*-methyl-D-aspartic acid; [D-Ala^2,*N*-$Mephe^4$,Gly^5-ol]enkephalin; [D-$Pen^{2,5}$]enkephalin (Zhang, K.-M. (719) 229)

Nociception; Antinociception; Analgesia; Noxious stimulus; Spinal reflex; Spinal cord (Romita, V.V. (720) 45)

Calcitonin gene-related peptide; Substance P; Sensory nerve sprouting; Reparative dentin; Inflammation; Steroid (Ferrari, A.M. (723) 125)

Peripheral neurectomy; Autotomy; Central sensitization; Bupivacaine; Cingulum bundle (Magnusson, J.E. (723) 214)

Hyperalgesia; Monoamine; Glycine; γ-Aminobutyric acid; Neuropathy; Spinal cord (Satoh, O. (728) 27)

NMDA; AMPA; Kainate; Glutamate; Monkey; Microiontophoresis; Neurotransmission (Dougherty, P.M. (728) 267)

Calmodulin inhibitor; Spinal analgesia; Central hyperalgesia; Formalin test; Tail flick test; Rotarod test; Rat (Menendez, L. (731) 114)

Met-enkephalin; Tachykinin; Analgesia; Antinociception; Naltrindole (Zachariou, V. (736) 305)

Medullary dorsal horn; Trigeminal nucleus caudalis; Opioid receptors; Antinociception; Nociception (Wang, X.-M. (739) 235)

Periaqueductal gray; Medial preoptic nucleus; Blood pressure; Hypothalamus (Behbehani, M.M. (740) 141)

Neuropeptide; Hyperalgesia; Spinal cord; Neuropathic; Model; Rat; Nerve injury; Chronic constriction injury (Munglani, R. (743) 102)

Pain-related behavior
Mechanical test; Sex; Estrus; Rat (Kayser, V. (742) 352)

Pain sensitivity
Nociception; Tailflick latency; Steroid hormone; Progestin; Membrane mechanism; Nongenomic; γ-Aminobutyric acid; Lordosis (Frye, C.A. (709) 1)

Paired helical filament
Tau; Human neuroblastoma culture; Alzheimer's disease; Neurofibrillary degeneration; Phosphorylation (Ko, L.-w. (707) 256)

Alzheimer disease; Crosslink; Glycation; Neurofibrillary pathology; Solubility (Smith, M.A. (717) 99)

Dystrophic neurite; Neurofilament; Hyper-phosphorylation; Senile plaque; Neuropathology; Alzheimer's disease (Su, J.H. (739) 79)

Paired pulse depression
Paroxysmal discharge; Population spike; 2-Amino-5-phosphonovalerate; Excitability; Disinhibition (Masukawa, L.M. (721) 132)

Dentate gyrus; In vivo; Kindling; MK-801; *N*-Methyl-D-aspartate; γ-Aminobutyric acid (Gilbert, M.E. (732) 201)

Chronic lead; Dentate gyrus; Glutamate release; GABA release; Calcium; Microdialysis; Paired-pulse facilitation; MK-801 (Lasley, S.M. (736) 125)

Paired pulse facilitation
γ-Aminobutyric acid; Spinal cord; Inhibitory postsynaptic current; Patch clamp method; Slice (Tanabe, M. (716) 101)

Paired-pulse facilitation
Basolateral amygdala; Dentate gyrus; Field potential; Long-term potentiation; Amygdalo-hippocampal interaction; Anesthetized rat (Ikegaya, Y. (718) 53)

Chronic lead; Dentate gyrus; Glutamate release; GABA release; Calcium; Microdialysis; Paired-pulse depression; MK-801 (Lasley, S.M. (736) 125)

Paired pulse inhibition
Hippocampus; Dentate gyrus; γ-Aminobutyric acid (Burdette, L.J. (722) 39)

Paired-pulse responses
Alcohol; SCH-23390; SKF-38393; Lateral septal nucleus; Dentate gyrus (Criado, J.R. (716) 192)

Palatability
Brainstem; Taste; Appetite; Food intake; Feeding; Benzodiazepine; Hyperphagia; Diazepam; Cerebral ventricle; Hindbrain; Anxiolytic (Peciña, S. (727) 22)

Maltose dextrin; Water deprivation; μ-Receptor; κ-Receptor; δ-Receptor; Sham feeding; Sham drinking; Post-ingestive mechanisms (Leventhal, L. (741) 300)

Palmitate
Nucleus basalis magnocellularis; Acetylcholine; Rat; Lesion; Ablation; Neuroplasticity; Membrane; Remodeling; Alzheimer disease; Phospholipid; Phosphatidylcholine (De Micheli, E. (735) 36)

Kindling; Amygdala; Thalamus; Fatty acid; Lipid; Deoxyglucose; Brain; Plasticity; Seizure; Phospholipid; Phosphatidylcholine; Activation (Arai, T. (743) 131)

Pancreas
Vagus nerve; Nucleus tractus solitarius; Ventromedial hypothalamic nucleus; Area postrema; Ovariectomy; Cholecystokinin receptor; Devazepide; L365,260; Food intake (Geary, N. (179) 179)

Parabigeminal nucleus
Superior colliculus; Ferret; Visual processing; Topographical projection; Horseradish peroxidase; Fluorescent microsphere (Jiang, Z.D. (743) 217)

Parabrachial nucleus
Opioid receptor; Food restriction (Wolinsky, T.D. (706) 333)

Paradoxical sleep
Estrus; REM sleep; Ovariectomy; Slow wave sleep; Rat; Sexual dimorphism (Fang, J. (734) 275)

Paragigantocellularis
Norepinephrine; Ventrolateral medulla; Opiate withdrawal (Van Bockstaele, E.J. (718) 61)

Parallel fiber
Cerebral blood flow; Glutamate; Nitric oxide; Metabolic regulation; Laser-Doppler flowmetry; Synaptic activity (Akgören, N. (710) 204)

Parallel processing
Lateral geniculate nucleus; Magnocellular; Parvocellular; Visual cortex; Immunohistochemistry (Chaudhuri, A. (709) 17)

Multielectrode; Recording; Electrode array; Electrophysiology; Visual cortex (Nordhausen, C.T. (726) 129)

Parasympathetic
Heart; Medulla; Nucleus ambiguus; Vagus (Panneton, W.M. (738) 342)

Parasympathetic nerve
Nitric oxide; Cerebral blood flow (Goadsby, P.J. (707) 110)

Parasympathetic nervous system
Neuroimmunomodulation; Circadian rhythm; Sympathetic nervous system; Submaxillary lymph node; Ornithine decarboxylase; Norepinephrine synthesis; Norepinephrine uptake; Choline uptake; Acetylcholine synthesis; Superior cervical ganglion; Chorda tympani (Cardinali, D.P. (711) 153)

Estrogen; Blood pressure; Heart rate; Serotonin receptor subtype; 5-HT_{1A} receptor; Gender difference; 8-OH-DPAT; Estradiol (Alper, R.H. (716) 224)

Parasympathetic / sympathetic interaction
Rostral ventrolateral medulla; Glutamate; Glycine; Single unit activity (McKitrick, D.J. (742) 203)

Paraventricular hypothalamus
Hypertonic NaCl; Subfornical organ; Supraoptic nucleus; Osmoreception (Han, L. (708) 45)

Arousal; Light reflectance; Optical imaging; Sleep; PVH; PVN; REM; Waking; Slow wave; Neuroendocrine (Kristensen, M.P. (727) 107)

Serotonin; Anorectic agent; Cholecystokinin; Drug tolerance; Escalating dose regimen (Li, B.-H. (728) 188)

Paraventricular nucleus
Methamphetamine; Noradrenaline; Neuropeptide Y (Yoshihara, T. (707) 119)

Fasting; Immobilization; Stress; Estrogen receptor; Nucleus of solitary tract (Estacio, M.A.C. (717) 55)

Nitric oxide; Nitric oxide synthase; Immobilization stress; Pituitary; Adrenal cortex; Hypothalamic–pituitary–adrenal axis; Adrenal medulla; Hybridization, in situ (Kishimoto, J. (720) 159)

Supraoptic nucleus; HPA axis; Hypothalamic-neurohypophysial system (Wotjak, C.T. (726) 237)

Oxytocin cell; Dorsal penile nerve; Electrical stimulation; Tactile stimulation; Castration; Rat (Yanagimoto, M. (733) 292)

Calretinin; Oxytocin; Vasopressin; Supraoptic nucleus; Anterior commissural nucleus; Suprachiasmatic nucleus (Arai, R. (735) 154)

FOS immunoreactivity; Supraoptic nucleus; Caudate putamen; Desensitization (Chang, S.L. (736) 227)

Lactation; Afferent, (nor)adrenergic; Stress; Hypothalamus-pituitary-adrenal (HPA) axis (Toufexis, D.J. (737) 71)

Neuropeptide Y; Perifornical hypothalamus; Respiratory quotient; Metabolism; Indirect calorimetry; Food intake (Currie, P.J. (737) 238)

Arginine vasopressin; Estrogen; Lactation; Oxytocin; Progesterone (Thomas, A. (738) 48)

Immobilization stress; c-*fos*; Rat; Lactation; Pregnancy; Corticosterone (Da Costa, A.P.C. (742) 177)

Stress; Dorsomedial hypothalamus; Heart rate; Blood pressure; Muscimol; Adrenocorticotrophic hormone (ACTH) (Stotz-Potter, E.H. (742) 219)

Medial preoptic area; Oxytocin; Sexual dimorphism; Substantia nigra (Dubois-Dauphin, M. (743) 32)

Tachykinin; NK-3 receptor; Antidiuretic action; Vasopressin V2 receptor; Senktide (Eguchi, T. (743) 49)

Hybridization, in situ; Perifornical area; Suprachiasmatic nucleus; Supraoptic nucleus; Thyroid; Human brain (Guldenaar, S.E.F. (743) 93)

Paraventricular nucleus of the hypothalamus
Corticosterone; Glucocorticoid receptor; Hippocampus; In situ hybridization; Rat (Helmreich, D.L. (706) 137)

5-HT receptors; Neuropeptide Y; Corticotropin releasing factor; Feeding (Grignaschi, G. (708) 173)

Supraoptic nucleus; Nucleus of the solitary tract; Cardiovascular regulation; Subfornical organ; Anteroventral third ventricle; Organum vasculosum of the laminae terminalis (Hochstenbach, S.L. (713) 17)

Fos; Cold; CRF; Dorsal motor nucleus of the vagus; Raphe pallidus; Gastric erosion; Central amygdala; Nucleus tractus solitarius (Wang, L. (736) 44)

Neurophypophysis; Aortic depressor nerve; Central cardiovascular regulation; Fluid balance; Hypertension (Ciriello, J. (739) 52)

Paraventricular thalamic nucleus
Circadian rhythm; [^{3}H]D-Aspartate; Ventromedial hypothalamic nucleus; Posterior hypothalamic nucleus; Lateral septal nucleus (Moga, M.M. (743) 171)

Pargyline
L-DOPA; Dopamine; Serotonin neuron; Monoamine oxidase; Dorsal raphe nucleus; Rat; Parkinson's disease (Arai, R. (722) 181)

Dialysis; Na,K-ATPase; Noradrenaline; Non-exocytotic release; Ouabain (Yamazaki, T. (737) 343)

Parietal lobe
Constructional apraxia; Praxis; Dystrophic neurite; AT8; Neurofibrillary tangle; β-Amyloid; Occipital cortex (Nielson, K.A. (741) 284)

Parkinson
Dopamine; Striatum; L-DOPA; Motor; Putamen (Cousins, M.S. (732) 186)

Thalamus; Cat; Electrophysiology; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) (Schneider, J.S. (742) 25)

Parkinsonian symptom
Parkinson's disease; Human; Motor loop; Basal ganglia; *N*-Methyl-D-asparate receptor; Dopamine; γ-Aminobutyric acid; Glutamate (Gerlach, M. (741) 142)

Parkinsonism
Bromocriptine; L-DOPA; C57BL/6 mouse; MPTP (Fukuda, T. (728) 274)

Monoamine oxidase; Dopamine; L-DOPA; Substantia nigra; Striatum; Deprenyl; Monkey (Di Monte, D.A. (738) 53)

Parkinson's disease
Aromatic L-amino acid decarboxylase; Serotonergic neuron; L-Dopa; Dopamine; Raphe nucleus; Striatum; Cerebral cortex (Arai, R. (706) 177)

Substantia nigra; Dopamine receptor; Striatum; Nigrostriatal (F. Piercey, M. (706) 249)

Rotational behavior; Striatum; Substantia nigra; High-affinity dopamine uptake; Mazindol binding (Jones, B.E. (709) 275)

1(*R*); 2(*N*)-Dimethyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline (*N*-methyl-(*R*)-salsolinol); Animal model; Dopamine; Tyrosine hydroxylase; 6,7-Dihydroxyisoquinolinium ion (Naoi, M. (709) 285)

Neurotrophin; Nigral graft; Fibre outgrowth (Haque, N.S.K. (712) 45)

Neurotrophin; Nerve growth factor; 1-Methyl-4-phenylpyridinium; Mitochondrion (Kirschner, P.B. (713) 178)

Corpus striatum; Olfactory tubercle; Sex differences; Orchidectomy; Estrogen (Dluzen, D.E. (715) 113)

L-DOPA; D-DOPA; Dihydroxyphenylpyruvic acid; Cerebral microdialysis; Catecholamine metabolism (Brannan, T. (718) 165)

Dyskinesia; Dopamine receptor; MPTP; Tolerance; Monkey; Catecholamine (Goulet, M. (719) 129)

L-DOPA; Dopamine; Serotonin neuron; Monoamine oxidase; Pargyline; Dorsal raphe nucleus; Rat (Arai, R. (722) 181)

Ferritin; MPTP; Oxidative stress; Microglia; Immunohistochemistry (Goto, K. (724) 125)

Cyclosporin A; 6-Hydroxydopamine; Amine concentration; Dopamine turnover; Degeneration of nigrostriatal dopamine neurons (Matsuura, K. (733) 101)

Iron; Substantia nigra; 6-Hydroxydopamine; Rat (He, Y. (735) 149)

MPTP; Dyskinesia; Cabergoline; $GABA_A$ receptor; Dopamine D_2 receptor (Grondin, R. (735) 298)

Oxidative stress; Advanced glycation end-product; Diffuse Lewy body disease; Immunocytochemistry (Castellani, R. (737) 195)

GABA release; Dopamine; 6-Hydroxydopamine; Neostriatum; Brain slice (Harsing Jr, L.G. (738) 142)

Acute phase protein; Alzheimer's disease; Ceruloplasmin; Copper; Huntington's disease; Progressive supranuclear palsy (Loeffler, D.A. (738) 265)

Human; Motor loop; Basal ganglia; *N*-Methyl-D-asparate receptor; Dopamine; γ-Aminobutyric acid; Glutamate; Parkinsonian symptom (Gerlach, M. (741) 142)

Basal ganglia; Brain; CYP2E1; Immunohistochemistry; NADPH-P450 oxidoreductase; P450 (Riedl, A.G. (743) 324)

Parotid
Substance P; Neurokinin-1; Striatum; Submaxillary; Immunocytochemistry; Receptor autoradiography; Tachykinin; Receptor heterogeneity; G-Protein coupled receptor (Mantyh, P.W. (719) 8)

Paroxysmal discharge
Population spike; Paired pulse depression; 2-Amino-5-phosphonovalerate; Excitability; Disinhibition (Masukawa, L.M. (721) 132)

Partial seizure
Epilepsy; GABA receptor; Gene expression; Hippocampal slice (Vick, R.S. (721) 111)

Parturition
Rabbit; Vasopressin; Oxytocin; Immunochemistry; Hypothalamus; Pregnancy; Estrus; Maternal behavior (Caba, M. (720) 7)

Parvalbumin
Calbindin; Calretinin; Cuneate nucleus; Gracile nucleus; Somatosensory; Synaptic organization (Crockett, D.P. (707) 31)

Calbindin D28k; Trigeminal ganglion; Neuropeptide Y; Nerve injury (Wakisaka, S. (707) 228)

Calcium binding protein; Calbindin; Thalamocortical pathway; Somatosensory system; Nociception (Lin, R.C.S. (711) 50)

Interneuron; Calcium-binding protein; Immunocytochemistry; Cingulate cortex; Neuronal circuitry (Kalus, P. (729) 45)

Social stress; Hippocampus; Calcium; Calcium-binding protein; Calbindin-D28k (Krugers, H.J. (729) 289)

Parvocellular
Lateral geniculate nucleus; Magnocellular; Visual cortex; Parallel processing; Immunohistochemistry (Chaudhuri, A. (709) 17)

Passive attention
Neural model; Auditory sensory memory; Sensory inference; Event-related potential (ERP); Mismatch negativity (MMN) (Winkler, I. (742) 239)

Passive avoidance
β-Amyloid peptide; Alzheimer's disease; Alternation behavior; Water-maze; Neurotoxicity; Amnesia model (Maurice, T. (706) 181)

Alzene; Working and reference spatial memory; Medial septum; Essential fatty acid; Linolenic/linoleic acid (Riekkinen Jr., P. (714) 118)

Hippocampus; CA1; CA3; Kainic acid; Water maze; Spatial learning; Memory (Stubley-Weatherly, L.A. (716) 29)

Corticosteroid receptor; C57BL/6; DBA/2; Hippocampus; LY 171555; SKF 38393; SCH 23390; (−)-Sulpiride (Cabib, S. (729) 110)

Interleukin-1; Scopolamine-induced amnesia; Recombinant granulocyte-macrophage colony-stimulating factor (Bianchi, M. (729) 285)

Dorsal hippocampus; Acquisition; Consolidation; Retrieval; Tetrodotoxin; Functional inactivation (Ambrogi Lorenzini, C. (730) 32)

Sigma (σ) agonists; PRE-084; Learning and memory; Aging; Y-maze; Water-maze; JO-1784 (igmesine); Senescence-accelerated mouse (SAM) (Maurice, T. (733) 219)

Passive avoidance conditioning
Cerebral ischemia; Neuronal death; Hippocampus; Learning; Memory; LY231617; Angiotensin IV; Circular water maze; Rat (Wright, J.W. (717) 1)

Passive-avoidance learning
Domestic chick; Neuronal plasticity; NMDA receptor; Learning (Bradley, P.M. (708) 100)

Passive-avoidance response
Alzheimer's disease; Acetylcholine; Arecoline; Atropine; Consolidation; Development; Memory; Pilocarpine; Scopolamine (Smith, R.D. (707) 13)

Patch clamp
$GABA_A$ receptor; Neurosteroid; Cortical neuron; Decreased efficacy (Yu, R. (706) 160)

Satellite glial cell; Potassium current; Neuronal activity; Tetrodotoxin; Reserpine (Konishi, T. (708) 7)

Bullfrog; Sodium-dependent potassium channel; Taste cell; Apical membrane; Transduction (Miyamoto, T. (715) 79)

Glial cell; Potassium; Na/K pump; Oligodendrocyte; N20.1 cell line; Potassium homeostasis (Dobretsov, M. (724) 103)

Neuroblastoma; Sodium channel; Potassium channel; Action potential (Gu, X.Q. (735) 50)

Lead; Calcium current; PC12 cell; Neurotoxicity (Hegg, C.C. (738) 333)

Cortical neuron; Kainate; Copper; Metal ion; (*S*)-α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA); *N*-methyl-D-aspartate (NMDA) (Weiser, T. (742) 211)

Patch-clamp analysis
Neuromuscular transmission; Quinine; Quinidine; Chloroquine; Transmitter release; Acetylcholine receptor; Channel block (Sieb, J.P. (712) 179)

Acetylcholine receptor; Channel block; Catecholamine; Neuromuscular transmission (Milone, M. (740) 346)

Patch clamp method
γ-Aminobutyric acid; Spinal cord; Paired pulse facilitation; Inhibitory postsynaptic current; Slice (Tanabe, M. (716) 101)

Pathogenesis
Brain damage; Cerebral cortex; Benzodiazepine; Hepatic encephalopathy; Human (Dodd, P.R. (710) 215)

Pathway tracing
Cognition; Pigeon; Prefrontal cortex; Hippocampus; Homing behavior (Leutgeb, S. (730) 173)

PBG chlorinated derivative
Medial prefrontal cortex; $5\text{-}HT_3$-like receptor; Phosphoinositide hydrolysis; $5\text{-}HT_3$ receptor agonist; SR 57227A (Edwards, E. (733) 21)

PC2
Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin-3; Epileptiform activity; Co-regulation; Co-localization; In situ hybridization (Meyer, A. (732) 121)

PC12
Oxidative stress; Antioxidant enzyme; Neuroleptic drug; Cytotoxicity (Behl, C. (717) 193)

Cortical neuron; Serum deprivation; Programmed cell death; Nerve growth factor; Reactive oxygen species (Satoh, T. (733) 9)

Fetal alcohol syndrome; Neurotrophin; Nerve growth factor receptor; Cell culture; Nerve growth factor binding study; Immunoprecipitation; Northern blot analysis (Luo, J. (737) 34)

Neuronatin; Nerve growth factor; Development; Brain (Joseph, R. (738) 32)

Nerve growth factor; L-Cysteine; L-Cystine (Pan, Z. (740) 21)

L-Deprenyl; Mesencephalic cells; 1-Methyl-4-phenyl pyridinium ion (MPP^+) (Vaglini, F. (741) 68)

PC12 cell
Interleukin-6 receptor; Gp 130; c-*fos*; Reverse transcriptase–polymerase chain reaction; Hybridization, in situ; Sympathetic neuron; Tumor necrosis factor α; Glucocorticoid; Differentiation (März, P. (706) 71)

Varicosity; Exocytosis; Nerve growth factor; Differentiation; Amperometric detection; Microelectrode (Zerby, S.E. (712) 1)

Trinucleotide repeat; Cyclic AMP regulated sequence; E-box; C6 cell; L6 cell (Song, W. (721) 204)

3,4-Dihydroxyphenylglycolaldehyde; Neurotoxin; Catecholamine; MAO-A metabolite (Burke, W.J. (722) 232)

Nerve growth factor; Cocaine; Neuronal differentiation; Benzoylecgonine; Ecgonine methyl ester; Local anesthetic (Zachor, D.A. (729) 270)

Lead; Calcium current; Patch clamp; Neurotoxicity (Hegg, C.C. (738) 333)

PC12D cell
Nerve growth factor; Neurite; Growth cone; Ruffle (Sano, M. (730) 212)

Trichostatin A; Neurite; Nerve growth factor; Fibroblast growth factor (Sano, M. (742) 195)

PD-123319
Angiotensin receptor; Hypothalamus; Circumventricular organ; Subfornical organ; Adrenal gland; DUP-753; CGP-42112A; Domestic mallard; Drinking; Bird; Osmoregulation (Schäfer, F. (711) 118)

PD128907
Dopamine D_3 receptor; 7-Hydroxy-DPAT; Locomotor activity; Huddling behavior; Rat (Kagaya, T. (721) 229)

Pellet
Nerve growth factor; Hippocampus; Association; Enzyme-linked immunosorbent assay; Rat brain (Hoener, M.C. (728) 47)

[D-Pen^{2,5}]enkephalin
Pain; Trigeminal; Nociception; Analgesia; Dorsal horn; *N*-methyl-D-aspartic acid; [D-Ala^2,*N*-Me-phe^4,Gly^5-ol]enkephalin (Zhang, K.-M. (719) 229)

Penile erection
Somatostatin; Cysteamine; Cholinergic; Serotonergic; Dopaminergic (Matsuoka, N. (729) 132)

Pentazocine
3-Methoxy-4-hydroxyphenylethylene glycol; 3,4-Dihydroxyphenylacetic acid (Eaton, M.J. (733) 162)

Pentobarbital
2-Deoxyglucose; Hyperglycemia; Hypothalamus; Microdialysis; Acetylcholine; Norepinephrine; 6-Hydroxydopamine (Takahashi, A. (734) 116)

Pentobarbital sleep
Social isolation stress; Mouse; Corticotropin releasing factor (CRF); Neurosteroid; Noradrenergic system (Matsumoto, K. (708) 1)

Pentose phosphate pathway
Mixed culture; Co-culture; Citric acid; Fructose 1,6-bisphosphate; Fluorocitrate (Kelleher, J.A. (726) 167)

Pentylenetetrazol
Infant convulsion; Hyperthermia; Morris water maze; Locomotor; Activity; Convulsion susceptibility (Kornelsen, R.A. (706) 155)

$GABA_A$ receptor; Ethanol withdrawal; Kindling; Hippocampus (Kang, M. (709) 221)

Epilepsy; Potassium channel; Oocyte; *Xenopus laevis*; Seizure (Madeja, M. (722) 59)

Peripheral-type benzodiazepine receptor; EL mouse; Epilepsy; Mitochondria; Ro 5-4864; Flunitrazepam (Nakamoto, Y. (717) 91)

Pentylenetetrazol kindling
Hippocampal slice; Primed-burst potentiation; Primed-burst depression; Field potential (Fathollahi, Y. (738) 138)

Penumbra
Focal cerebral ischemia; Ischemic depolarization; Forelimb; Postural reflex; Beam balance; Rat (Alexis, N.E. (706) 273)

Hypoxia; Neuroprotection; Hypoxic depolarization; Glutamate receptor (Chen, Z.-F. (708) 82)

Hypoxia; Adenosine; Excitatory synaptic transmission; Neuroprotection; Rat; Hippocampus (Arlinghaus, L. (724) 265)

NF-κB; Macrophage; Microglia; Astrocyte (Terai, K. (739) 343)

Peptide
Rab3a; Synaptophysin; Synapsin I; Immunofluorescence; Rat peripheral nervous system (Li, J.-Y. (706) 103)

Brain; Neurophysiology (Nagase, H. (709) 44)

Ischemia; Apoptosis; Astrocyte; Hippocampus; Rat; PACAP (Uchida, D. (736) 280)

Peptide inactivation
Endopeptidase 3.4.24.16; Endopeptidase 3.4.24.15; Human brain; Pig brain; Neurotensin (Vincent, B. (709) 51)

Peptidergic innervation
Coexistence; Double labelling immunofluorescence; Multiple dye filter; Carotid labyrinth (Kusakabe, T. (735) 307)

Perforant path
Aging; Rat; Hippocampus; Raphe transplant (Levkovitz, Y. (719) 234)

CA1; Epilepsy; Hippocampus; Kindling (Krahl, S.E. (723) 196)

Perfused brain
Nucleoside; Thymidine; Blood–brain barrier; Blood–cerebrospinal fluid barrier; Transport; Carrier-mediated (Thomas née Williams, S.A. (741) 230)

Periaqueductal gray
Brain-derived neurotrophic factor; Norepinephrine; Dopamine; Serotonin; Raphe nucleus; Hippocampus; Cortex; Nucleus accumbens; Hypothalamus; Substantia nigra (Siuciak, J.A. (710) 11)

Raphe nucleus; Spinal trigeminal caudal subnucleus; Substance P; Antinociception; Rat (Li, Y.-Q. (719) 219)

Non-steroidal antiinflammatory drug; Dipyrone; Naloxone; Opiates; Off-cell; On-cell; Antinociception; Tail flick (Tortorici, V. (725) 106)

proTRH; Opiate withdrawal; Hybridization histochemistry in situ; Immunohistochemistry; Rat (Légrádi, G. (729) 10)

γ-Aminobutyric acid; Glycine; Spinal cord; Dorsal horn; Inhibition; Receptor; Serotonin (Peng, Y.B. (736) 189)

Medial preoptic nucleus; Blood pressure; Pain; Hypothalamus (Behbehani, M.M. (740) 141)

Analgesia; Morphine; β-Endorphin; Amygdala; μ Opioid receptor; δ_2 Opioid receptor (Pavlovic, Z.W. (741) 13)

Periaqueductal gray matter
Superior colliculus; Defensive reaction; Endogenous opioid (Coimbra, N.C. (736) 348)

Periaqueductal gray (PAG)
Benzodiazepine; Back muscle; Progesterone; Lordosis; Midbrain central gray (MCG); Reticular formation; Muscle relaxant (Schwartz-Giblin, S. (710) 178)

Periaqueductal grey
Retrograde tracing; Fluorescent microsphere; Brainstem; Ventral medulla; Rat (Hudson, P.M. (733) 138)

Pericyte
Intracerebral transplantation; Migration; [^{3}H]thymidine; Oligodendrocyte; Astroglia (Lundberg, C. (737) 295)

Perifornical area
Hybridization, in situ; Paraventricular nucleus; Suprachiasmatic nucleus; Supraoptic nucleus; Thyroid; Human brain (Guldenaar, S.E.F. (743) 93)

Perifornical hypothalamus
Neuropeptide Y; Paraventricular nucleus; Respiratory quotient; Metabolism; Indirect calorimetry; Food intake (Currie, P.J. (737) 238)

Perikarya
Tyrosine hydroxylase; Locus coeruleus; Mouse; Neuropile; Plasticity; Immunoautoradiography; Topology (Ginovart, N. (719) 45)

Perinatal
Brain; Hypoxia; ischemia; Oxidation-reduction (redox); Rat (Yager, J.Y. (712) 230)

Perinatal lethality
Transgenic insertion mutation; Neuronal migration; Cortical ectopia; Mouse; Microgyria; Dysgenesis; Cerebral cortex (Beier, D.R. (727) 196)

Perinatal neural injury
Rota-Rod treadmill; Cerebral palsy; Sensorimotor; Rat; Brain hypertrophy; Contralateral hemisphere hypertrophy (Jansen, E.M. (708) 93)

Period doubling-bifurcation
Somatosensory cortex; Anesthetized rat; Periodic medial lemniscus stimulation; Field potential; Phase-locking; Chaos; One-dimensional strobomap; Strange attractor; Correlation dimension; Lyapunov exponent (Ishizuka, S. (723) 46)

Periodic medial lemniscus stimulation
Somatosensory cortex; Anesthetized rat; Field potential; Phase-locking; Chaos; One-dimensional strobomap; Strange attractor; Period doubling-bifurcation; Correlation dimension; Lyapunov exponent (Ishizuka, S. (723) 46)

Periodontal ligament
Nerve injury; Inferior alveolar nerve; Neuropeptide Y; Ruffini ending; Mechanoreceptor; Rat (Wakisaka, S. (712) 11)

Nerve injury; Mechanoreceptor; Neuropeptide Y; Regeneration; Ruffini ending; Inferior alveolar nerve; Immunoelectron microscopy (Wakisaka, S. (729) 259)

Mechanoreceptor; Reflex; Jaw muscle; Masticatory system; Teeth (Louca, C. (731) 63)

Peripheral inflammation
Dynorphin $A_{(1-8)}$; Spinal cord; Release; Antibody microprobe (Riley, R.C. (710) 131)

Preprotachykinin; Nerve growth factor receptor; mRNA; Dorsal root ganglia; Pain; In situ hybridization (Cho, H.-J. (716) 197)

Peripheral nerve
Anoxia; Reperfusion injury; Reoxygenation; Ischemia; Axon; Electron probe X-ray microanalysis; Elemental composition (Lehning, E.J. (715) 189)

Leupeptin; Aprotinin; APP; Serpin; Deposit; Schwann; Anchoring junction; Desmosome; Alzheimer (Moreno, R.D. (718) 13)

Ischemia; Intracellular pH; Intracellular Ca^{2+}; Neuropathy; Fluorescent dye (Wächtler, J. (725) 30)

Degeneration; Nerve repair; Regeneration; Transplantation; Rat (Gulati, A.K. (742) 265)

Peripheral nerve graft
Axonal regeneration; Respiratory neuron; Electrophysiology; Nerve grafting; Rat; Schwann cell; Spinal cord; Wallerian degeneration (Decherchi, P. (726) 181)

Peripheral nerve regeneration
Polyglycolic acid-collagen tube; Horseradish peroxidase; Somatosensory evoked potential; Electromyogram; Cat sciatic nerve; Intracellular recording from motoneuron; Reinnervation, misdirected (Kiyotani, T. (740) 66)

Peripheral nervous system
Cyclin-dependent kinase; Immunohistochemistry; Purkinje cell; Trigeminal ganglia; Nuclear protein; Central nervous system (Ino, H. (732) 179)

Peripheral neurectomy
Pain; Autotomy; Central sensitization; Bupivacaine; Cingulum bundle (Magnusson, J.E. (723) 214)

Peripheral organ
Central nervous system; Hypothalamus; Gut; Truncal vagotomy; Feeding; Glycoprivation; Glucose utilization (Morita, H. (719) 112)

Peripheral-type benzodiazepine receptor
EL mouse; Epilepsy; Mitochondria; Ro 5-4864; Flunitrazepam; Pentylenetetrazole (Nakamoto, Y. (717) 91)

Peripherin
Luteinizing hormone-releasing hormone; Gonadotropin-releasing hormone; Olfactory marker protein; Olfactory bulb; Rat; Immunocytochemistry; Di-I (Santacana, M. (734) 337)

Perirhinal cortex
Kindling; Kindling antagonism; Amygdala; Piriform cortex; Insular cortex; Seizure suppression (Mohapel, P. (733) 211)

Long-term potentiation; NMDA; Associative; Memory (Bilkey, D.K. (733) 297)

Amygdala-kindling; Field potential, in vitro; Brain slice; Epilepsy (Matsumoto, Y. (741) 44)

Perivascular cell
Prostaglandin; Vascular (Breder, C.D. (713) 64)

Perivascular space
Spinal cord; Central canal; Cerebrospinal fluid; Horseradish peroxidase; Syringomyelia (Stoodley, M.A. (707) 155)

Permanent focal cerebral ischemia
Middle cerebral artery occlusion; MCA-O; Wistar Kyoto rat; Brain; Behavior; Neurological examination (Van der Staay, F.J. (715) 180)

Permanent MCAO
In situ hybridization; MK-801; NBQX; GFAP; SGP-2; Clusterin (Yamashita, K. (735) 285)

Permeability
Hypoxia; Barbiturate; Methohexital; Thiopental; Blood-brain barrier; Brain microvascular endothelial cell (Fischer, S. (707) 47)

Endothelium; Energy deprivation; Fluorocitrate (Rist, R.J. (730) 87)

Peroxynitrite
Glutathione reductase; Oxidative stress; Neurodegeneration (Barker, J.E. (716) 118)

Alzheimer's disease; Apolipoprotein E; Oxidative stress (Matthews, R.T. (718) 181)

Pertussis toxin
Cyclic AMP; Adenosine A_1; Adrenaline α_2; Dopamine D_2; G protein; Rhythmic bladder contraction; Rat (Oka, M. (727) 91)

Substantia nigra pars reticulata; D_2 dopamine receptor; Quinpirole; EEDQ; Iontophoresis; Extracellular single unit recording (Martin, L.P. (729) 156)

Petit mal
Epilepsy; Seizure; Absence; γ-Aminobutyric acid; Electroencephalography; Pharmacological antagonist; Rat (Smith, K.A. (729) 147)

Petrosal ganglion
Calbindin D-28k; Calcitonin gene-related peptide; Immunohistochemistry; Jugular ganglion; NADPH-diaphorase; Nodose ganglion; Tyrosine hydroxylase (Ichikawa, H. (735) 325)

PGE_1 receptor
Opiate tolerance and dependence; Adenylate cyclase supersensitivity; Stimulatory signal transduction; μ Opioid receptor; Stimulatory G protein; Morphine; SH-SY5Y cell (Ammer, H. (707) 235)

PGO spike
REM sleep; Nicotine (Vazquez, J. (737) 317)

Phalloidin
Alzheimer's disease; Amyloid precursor protein; Immunocytochemistry; Primary neuronal culture; Growth cone; Time-lapse microscopy (Storey, E. (735) 59)

Pharmacokinetic
Melatonin; Anterior hypothalamus; Microdialysis; Radioimmunoassay; Siberian hamster (Ferreira, S.A. (733) 318)

Pharmacological antagonist
Epilepsy; Seizure; Absence; Petit mal; γ-Aminobutyric acid; Electroencephalography; Rat (Smith, K.A. (729) 147)

Pharynx
Vestibular reflex; Posture; Respiration; Larynx; Tongue (Siniaia, M.S. (736) 160)

Phase-dependent reflex modulation
Human gait; Tendon jerk reflex; Proprioceptive reflex; Biceps femoris (Van de Crommert, H.W.A.A. (734) 341)

Phase-locking
Somatosensory cortex; Anesthetized rat; Periodic medial lemniscus stimulation; Field potential; Chaos; One-dimensional strobomap; Strange attractor; Period doubling-bifurcation; Correlation dimension; Lyapunov exponent (Ishizuka, S. (723) 46)

Phase–response curve
8-Hydroxy-DPAT; Constant darkness; Neuropeptide Y; Hamster (Colecchia, E.F. (730) 227)

Acetylcholine; Atropine; Carbachol; Circadian rhythm; Entrainment; Mecamylamine; Suprachiasmatic (Bina, K.G. (743) 202)

Phase shift
Circadian rhythm; Locomotor activity; Immediate-early gene; Protein synthesis inhibitor; Cycloheximide (Zhang, Y. (740) 285)

Adenosine; Suprachiasmatic nucleus; Circadian rhythm; Retinohypothalamic tract; Fos (Watanabe, A. (740) 329)

Phencyclidine
Nitric oxide; N^{ω}-Nitro-L-arginine methyl ester; 7-Nitroindazole; Discriminative stimulus; Drug discrimination; Operant behavior; Catalepsy (Jewett, D.C. (715) 25)

Heat shock; Excitotoxicity; AMPA; Quisqualate; Kainate; Hippocampus; Rat (Sharp, J.W. (728) 215)

Phenylethanolamine-*N*-methyltransferase
Corticotropin-releasing factor; Neurotensin; External cuneate nucleus; Gerbil (Lan, C.-T. (711) 211)

Pheochromocytoma 12 cell
Cytosolic calcium ($[Ca^{2+}]_i$); Glomus cell; Vascular smooth muscle cell (A7r5); Carotid body; Hypoxia (Bright, G.R. (706) 297)

Pheochromocytoma cell
Tetrahydrobiopterin; Epidermal growth factor; Nerve growth factor; Interferon-γ; Tyrosine hydroxylase; Guanosine triphosphate cyclohydrolase; Sphingosine; Cyclic adenosine monophosphate (Anastasiadis, P.Z. (713) 125)

Phorbol 12,13-dibutyrate
Ventromedial hypothalamic nucleus; 2,3-Butanedione monoxime; Glycine; Chloride current; Protein kinase; Phosphorylation; Chelerythrine (Ye, J.-H. (735) 20)

Phorbol ester
Protein kinase C; *Aplysia californica*; Acetylcholine; Acetylcholine receptor; Protein kinase C activator (Papp, A. (708) 123)

AChR subunit; Phosphorylation; Mutation; Protein kinase C; Xenopus oocyte (Limatola, C. (742) 172)

Phorbol 12-myristate 13-acetate
Ciliary neurotrophic factor; Neurotrophic factor; Astrocyte; AP-1 (Nagao, H. (719) 23)

Phosphatase
Phosphorylation; Tyrosine; Denervation; Neuromuscular; Synapse; Synaptogenesis (Tanowitz, M. (712) 299)

Calcineurin; Cyclosporin A; Dephosphorylation; Immunosuppressant; Memory (Bennett, P.C. (730) 107)

Phosphatidylcholine
Acetylcholine; Choline; Choline uptake; Phosphocholine; Phospholipid; Choline acetyltransferase; Choline kinase; Rat striatum (Farber, S.A. (723) 90)

Nucleus basalis magnocellularis; Acetylcholine; Rat; Lesion; Ablation; Palmitate; Neuroplasticity; Membrane; Remodeling; Alzheimer disease; Phospholipid (De Micheli, E. (735) 36)

Kindling; Amygdala; Thalamus; Fatty acid; Palmitate; Lipid; Deoxyglucose; Brain; Plasticity; Seizure; Phospholipid; Activation (Arai, T. (743) 131)

Phosphatidylinositol bisphosphate
Traumatic brain injury; Fluid percussion; Diacylglycerol; Free fatty acid; Arachidonic acid; Scopolamine; Muscarinic; Rat (Lyeth, B.G. (742) 63)

Phosphocholine
Acetylcholine; Choline; Choline uptake; Phosphatidylcholine; Phospholipid; Choline acetyltransferase; Choline kinase; Rat striatum (Farber, S.A. (723) 90)

Phosphocreatine
Brain; ATP; Nuclear magnetic resonance (Tsuji, M.K. (707) 146)

Phosphodiesterase
Melatonin; Retina; Cyclic GMP; Golden hamster; Guanylate cyclase (Faillace, M.P. (711) 112)

Phosphoinositide
Muscarinic receptor; Phospholipase C; PLC-mRNA; In situ hybridization; Aging; Fisher rat; Brain; Signal transduction (Narang, N. (708) 143)

Inositol phosphate; Depression; G-protein; Signal transduction (Pacheco, M.A. (723) 37)

Phosphoinositide hydrolysis
Ibogaine; Noribogaine (Rabin, R.A. (731) 226)

Medial prefrontal cortex; 5-HT_3-like receptor; 5-HT_3 receptor agonist; PBG chlorinated derivative; SR 57227A (Edwards, E. (733) 21)

Phospholamban
Neuronatin; Chromosome 20; Development; Proteolipid protein; Brain; PMP1; Cation channel; ATPase; Neural restrictive silencer element (Dou, D. (723) 8)

Phospholipase
Cerebral ischemia; Stroke; Excitotoxic amino acid; Glutamate; Protein kinase (Phillis, J.W. (730) 150)

Phospholipase A_2
Hippocampus; Long-term depression; Arachidonic acid; 12-Lipoxygenase metabolite (Normandin, M. (730) 40)

Phospholipase C
Muscarinic receptor; Phosphoinositide; PLC-mRNA; In situ hybridization; Aging; Fisher rat; Brain; Signal transduction (Narang, N. (708) 143)

Phospholipid
Acetylcholine; Choline; Choline uptake; Phosphatidylcholine; Phosphocholine; Choline acetyltransferase; Choline kinase; Rat striatum (Farber, S.A. (723) 90)

Cerebellum; Slice; Fluorescence; Microscopy (Schreurs, B.G. (730) 125)

Nucleus basalis magnocellularis; Acetylcholine; Rat; Lesion; Ablation; Palmitate; Neuroplasticity; Membrane; Remodeling; Alzheimer disease; Phosphatidylcholine (De Micheli, E. (735) 36)

Glutamate receptor; Hippocampus; Development (Gagné, J. (740) 337)

Kindling; Amygdala; Thalamus; Fatty acid; Palmitate; Lipid; Deoxyglucose; Brain; Plasticity; Seizure; Phosphatidylcholine; Activation (Arai, T. (743) 131)

Phosphoneuroprotein
PNP 14; Brain-specific protein; Neuron-specific protein; Enzyme immunoassay (Nakajo, S. (741) 180)

Phosphonovaleric acid
C-fiber; Cardiopulmonary receptor; Amino acid receptor; Bradycardia; Sympatho-inhibition (Chianca Jr., D.A. (718) 185)

Phosphorescence
Apnea; Newborn; Cerebral oxygenation; Hypoxia (Tammela, O.K.T. (741) 160)

Phosphorylation
Tau; Human neuroblastoma culture; Alzheimer's disease; Neurofibrillary degeneration; Paired helical filament (Ko, L.-w. (707) 256)

Non-selective cation channel; Adenosine triphosphate; Adenosine diphosphate; AlF complex; G protein; Chromaffin cell (Inoue, M. (707) 298)

Forebrain ischemia; Translocation; Ca^{2+}/calmodulin-dependent protein kinase II (Aronowski, J. (709) 103)

Tyrosine; Phosphatase; Denervation; Neuromuscular; Synapse; Synaptogenesis (Tanowitz, M. (712) 299)

Pineal; Cyclic AMP; Malate dehydrogenase; Aspartate/malate shuttle (Weller, J.L. (713) 8)

Opioid; Tolerance; Dependence; cAMP; Opiate receptor; Protein kinase C (Wang, L. (723) 61)

Ventromedial hypothalamic nucleus; 2,3-Butanedione monoxime; Glycine; Chloride current; Protein kinase; Phorbol 12,13-dibutyrate; Chelerythrine (Ye, J.-H. (735) 20)

Long-term potentiation; Protein kinase C; F1/GAP-43; Mossy fiber; Hippocampus (Son, H. (739) 282)

AChR subunit; Mutation; Protein kinase C; Xenopus oocyte; Phorbol ester (Limatola, C. (742) 172)

Photic responsiveness
Suprachiasmatic nuclei; Circadian system; Entrainment; Neurophysiology; Visual system (Meijer, J.H. (741) 352)

Photic stimulation
Nitric oxide synthase; Forebrain; Epilepsy; Chick; Hereditary; Seizure (Sandirasegarane, L. (735) 311)

Photo-dissociation
Cytochrome oxidase; Hypercapnia; Hypoxia; Metabolic hypothesis (Osanai, S. (711) 56)

Photoperiod
Tyrosine hydroxylase; L-amino acid decarboxylase; Immunocytochemistry; Arcuate nucleus; Median eminence; Hamster (Krajnak, K. (712) 95)

Circadian rhythm; Suprachiasmatic nucleus; c-*fos*; Pineal; Melatonin; Rat (Sumová, A. (725) 281)

Photoreception
Circadian regulation; Oscillator; Melatonin; Pineal; Retina; *Danio (Brachydanio) rerio*; Organ culture (Cahill, G.M. (708) 177)

Photoreceptor
Retina; RCS rat; Behavior; Water maze; Retinal degeneration (DiLoreto Jr., D. (717) 165)

Rat; In situ hybridization; Rod; Inner segment; Development; Dark-rearing (Hoover, F. (718) 124)

Phrenic
Blood pressure; Sympathetic; Respiration; MK-801; Hypoxia (Miyawaki, T. (726) 64)

Phrenic nerve
AMPA; *N*-Methyl-D-aspartate; AP-7; NBQX; Microinjection (Chitravanshi, V.C. (715) 104)

Physical activity
Exercise; Neural activity; Neurotrophin; Environmental stimulus; Gene expression; Brain plasticity (Neeper, S.A. (726) 49)

Physical dependence
Ethanol; $GABA_A$ receptor; Desensitization; Lanthanum; Zinc; Dissociated neuron; Septum (Frye, G.D. (720) 101)

Morphine; Butorphanol; Glutamate; Locus coeruleus; Microdialysis; Diltiazem; L-type Ca^{2+} channels (Tokuyama, S. (722) 212)

Physostigmine
Striatum; Dopamine; Acetylcholine; Acetylcholinesterase; Fasciculin; Acetylcholinesterase inhibitor; Microdialysis; Push-pull perfusion (Dajas-Bailador, F. (722) 12)

Phytate
Inositol hexakisphosphate; Zinc; Calcium; Neuronal cytotoxicity; Hippocampus; Acetylcholinesterase (Lees, G.J. (741) 134)

Pial arteriole
FITC-dextran; Cerebral venule; Nitric oxide; L-NMMA; Brain; Rat (Mayhan, W.G. (743) 70)

Picrotoxin
Convulsion, picrotoxin-induced; Sex difference; Gonadal hormone; TBOB binding; Rat (Peričić, D. (736) 174)

Immunohistochemistry; Calcium-binding protein; Neurofilament protein; Fos (Hiscock, J.J. (738) 301)

Pig
Cerebral ischemia; Cerebral blood flow; Reperfusion; Adenosine (Gidday, J.M. (734) 261)

Pig brain
Endopeptidase 3.4.24.16; Endopeptidase 3.4.24.15; Human brain; Neurotensin; Peptide inactivation (Vincent, B. (709) 51)

Serotonin 5-HT_3 receptor; (S)-Zacopride; Radioligand binding (Fletcher, S. (729) 281)

Pigeon
Cortex; Varicosity; Spine; Biotinylated dextran amine (Veenman, C.L. (707) 1)

Cognition; Prefrontal cortex; Hippocampus; Homing behavior; Pathway tracing (Leutgeb, S. (730) 173)

Pigeon hippocampus
Long-term potentiation; NMDA receptor (Shapiro, E. (725) 199)

Piglet
BQ-123; cAMP; ET-1; ET_A; Hematoma; Vascular reactivity (Yakubu, M.A. (734) 149)

Pilocarpine
Alzheimer's disease; Acetylcholine; Arecoline; Atropine; Consolidation; Development; Memory; Passive-avoidance response; Scopolamine (Smith, R.D. (707) 13)

Hippocampal slice; Dentate gyrus granule cell; Increased EPSP; Whole-cell recording; Time constant; Epilepsy (Isokawa, M. (718) 169)

Status epilepticus; Seizure; Cell death; Time course; *N*-Methyl-D-aspartate receptor; Glutamate (Fujikawa, D.G. (725) 11)

PI metabolism
APP secretion; AF102B; Various brain regions; M1 receptor; Alzheimer's disease (Pittel, Z. (742) 299)

Pinacidil
Alzheimer's disease; Diazoxide; Dichlorofluorescin; Hydrogen peroxide; Levochromakalim (Goodman, Y. (706) 328)

Pineal
Circadian regulation; Oscillator; Melatonin; Retina; Photoreception; *Danio (Brachydanio) rerio*; Organ culture (Cahill, G.M. (708) 177)

Cyclic AMP; Malate dehydrogenase; Phosphorylation; Aspartate/malate shuttle (Weller, J.L. (713) 8)

Circadian rhythm; Suprachiasmatic nucleus; Photoperiod; c-*fos*; Melatonin; Rat (Sumová, A. (725) 281)

Melatonin synthesis; Retina; Adrenergic; Circadian rhythm; mRNA regulation (Gauer, F. (737) 99)

Pinealectomy
Circannual rhythm; Rat; Suprachiasmatic nucleus; Ganglionectomy; Thyroidectomy; Morphometric analysis (Peschke, E. (740) 81)

Pineal gland
Chronobiology; Circadian rhythm; Light; Melatonin; Suprachiasmatic nucleus (Hätönen, T. (710) 125)

Alzheimer's disease; Melatonin; Circadian rhythm; Suprachiasmatic nucleus; Sleep–wake cycle; Delirium; Light–dark cycle (Uchida, K. (717) 154)

Pirenzepine
Hippocampus; Octreotide; Plasticity; Somatostatin receptor (Nakata, A. (723) 135)

Tacrine; In vitro ACh release; Cortical synaptosome; Atropine; AF-DX 116; Muscarinic receptor (Svensson, A.-L. (726) 207)

Piriform cortex
Cholera toxin B subunit; Dopamine; Dopamine β-hydroxylase; Tyrosine hydroxylase; Ventral tegmental area; Locus coeruleus (Datiche, F. (710) 69)

Neurotoxic lesion; Ibotenic acid; Magnetic resonance imaging; Edema (Ben-Horin, N. (718) 97)

Kindling; Kindling antagonism; Amygdala; Perirhinal cortex; Insular cortex; Seizure suppression (Mohapel, P. (733) 211)

Pituitary
Autoradiography; Brain; Communication; Fish; Sexual dimorphism; Steroid (Fine, M.L. (709) 65)

Adenylate cyclase activity; Adrenocorticotropin; cAMP production; Corticotropin-releasing factor; Receptor downregulation (Dieterich, K.D. (710) 287)

Apoptosis; Endotoxin; Hippocampus; Hypothalamus; Interleukin-1β; Lipopolysaccharide (Tingsborg, S. (712) 153)

Nitric oxide; Nitric oxide synthase; Immobilization stress; Paraventricular nucleus; Adrenal cortex; Hypothalamic–pituitary–adrenal axis; Adrenal medulla; Hybridization, in situ (Kishimoto, J. (720) 159)

Pituitary adenylate cyclase activating polypeptide
Chromaffin cell; Catecholamine; Dorsal root ganglia; Nodose ganglia (Dun, N.J. (716) 11)

Human; Dorsal horn; Intermediolateral cell column; Dorsal root ganglion; Calcitonin gene-related peptide; Substance P (Dun, E.C. (721) 233)

Pituitary D-2 receptor
T3; Estrogen; Prolactin; Thyroxine; Thyrotrophin; cAMP (Nedvídková, J. (712) 148)

Pituitary gland
Adenylate cyclase; ACTH; cAMP; Cancer; Protein kinase C; Receptor desensitization; Receptor down-regulation (Dieterich, K.D. (733) 113)

PKA
PAG neuron; Glycine; Cl^- response; Enkephalin; 2nd messenger (Min, B.I. (734) 72)

PKC
Calmodulin; Dendritic spine; Golgi complex; Mitochondria; RC3 (Neuner-Jehle, M. (733) 149)

PKC activity
Muscarinic receptor; Medial septum; Hippocampus; Sympathetic ingrowth; Lesion; Protein kinase C; Plasticity (Ayyagari, P.V. (708) 205)

PL017
Cell division; Endogenous opioid system; μ Opioid receptor immunocytochemistry; Neural development; Drug abuse (Knapp, P.E. (743) 341)

Planorbis corneus
Dopamine exocytosis; Inter-spike interval; Bursting pattern; Burst; Distribution; Cell body; Giant dopamine neuron (Chen, G. (733) 119)

Plasma glucose
Prenatal stress; Handling; Hypothalamo-pituitary-adrenal axis; Body weight; Feeding behavior; Rat (Vallée, M. (712) 287)

Plasma level
Glutamate; Arcuate nucleus of hypothalamus; Microdialysis; Extracellular level; Feeding (Bogdanov, M.B. (736) 76)

Plasma osmolality
Circumventricular organ; Cardiovascular regulation; Body fluid homeostasis (Rosas-Arellano, M.P. (706) 323)

Plasmin
Plasminogen; α_2-Antiplasmin; Long-term potentiation; Short-term potentiation; NMDA receptor; Hippocampal slice; Rat (Mizutani, A. (739) 276)

Plasminogen
Plasmin; α_2-Antiplasmin; Long-term potentiation; Short-term potentiation; NMDA receptor; Hippocampal slice; Rat (Mizutani, A. (739) 276)

Plasticity
Galanin; Neuropeptide Y; Nerve injury; Pain (Rydh-Rinder, M. (707) 180)

Muscarinic receptor; Medial septum; Hippocampus; Sympathetic ingrowth; Lesion; Protein kinase C; PKC activity (Ayyagari, P.V. (708) 205)

Hyperexcitability; Granule cell; Rat; In situ hybridization; Epilepsy; Growth factor; Hippocampus (Elmér, E. (712) 19)

Singing; HVC; Testosterone; Gap-junction; Canary (Gahr, M. (712) 69)

Corticospinal neuron; Dendritic branching; Recovery of function; Motor cortex; Skilled forelimb use in rat (Prusky, G. (714) 1)

Gap junction; Retina; Electrical synapse; Connexin; Vision (McMahon, D.G. (718) 89)

Adaptation; Cross axis; Medial vestibular nucleus; Motor learning; Single unit; Superior vestibular nucleus; Vestibulo-ocular reflex (Quinn, K.J. (718) 176)

Tyrosine hydroxylase; Locus coeruleus; Mouse; Perikarya; Neuropile; Immunoautoradiography; Topology (Ginovart, N. (719) 45)

Tyrosine hydroxylase; Locus coeruleus; Mouse; Immunocytochemistry; Topology (Ginovart, N. (721) 11)

CGRP; Nerve injury; Sensory neuron; Somatostatin (Ji, R.-R. (721) 167)

Hippocampus; Octreotide; Pirenzepine; Somatostatin receptor (Nakata, A. (723) 135)

Olfaction; Reinnervation; Olfactory marker protein; Olfactory system; OMP; Age-related; Behavioral recovery (Evers, S.M. (724) 129)

Chick; Morphology; Learning; Electrophysiology (Bradley, P.M. (727) 125)

Epilepsy; Kindling; Neuropsin gene; Serine protease; Limbic system; Cerebral cortex (Okabe, A. (728) 116)

Nerve growth factor; Visual cortex; GAP-43; Synaptophysin; Neurotrophin (Liu, Y. (732) 36)

Zif268; Immediate early gene; Visual system; Ocular dominance column; Development; Primate (Silveira, L.C.L. (732) 237)

Cyclin; Cyclin-dependent kinase; Cell cycle; Tau protein; Development (Matsushita, M. (734) 319)

Hyaluronan receptor; Nerve cell; Brain (Fuxe, K. (736) 329)

Eye enucleation; Neurochemistry; Transneuronal degeneration (Lane, R.D. (740) 208)

Kindling; Amygdala; Thalamus; Fatty acid; Palmitate; Lipid; Deoxyglucose; Brain; Seizure; Phospholipid; Phosphatidylcholine; Activation (Arai, T. (743) 131)

Platelet
Brain-derived neurotrophic factor; Serotonin; Neurotrophic factor; Serum; Brain; ELISA immunoassay (Radka, S.F. (709) 122)

Platelet-activating factor
Cerebral ischemia-reperfusion; Thromboxane; Free radical; Ascorbyl radical; Electron spin resonance (Matsuo, Y. (709) 296)

Astrocyte; Nitric oxide; ET-18-OCH_3; PAF; CPAF; LPS; BN 50730 (Cardile, V. (715) 98)

Brain ischemia; Nicardipine; Bay K8644; MK-801; Ca^{2+} influx (Nishida, K. (733) 203)

CA1 neuron; Culture; Glutamate; Hypoxia; Nitric oxide; Postnatal; Rat (Ohmori, T. (743) 109)

PLC-mRNA
Muscarinic receptor; Phospholipase C; Phosphoinositide; In situ hybridization; Aging; Fisher rat; Brain; Signal transduction (Narang, N. (708) 143)

PLG analog
Prolyl-leucyl-glycinamide; MIF-1; Striatal dopamine receptor; 6-Hydroxydopamine lesion; Apomorphine (Ott, M.C. (737) 287)

Plus maze
Benzodiazepine withdrawal; Stress; γ-Aminobutyric acid (GABA)-gated chloride flux; Anxiety; Forced swim (Martijena, I.D. (712) 239)

5-HT_{1A}; Benzodiazepine; Amygdala; 8-OH-DPAT; Midazolam; Social interaction (Gonzalez, L.E. (732) 145)

PMP1
Neuronatin; Chromosome 20; Development; Proteolipid protein; Brain; Phospholamban; Cation channel; ATPase; Neural restrictive silencer element (Dou, D. (723) 8)

PNP 14
Phosphoneuroprotein; Brain-specific protein; Neuron-specific protein; Enzyme immunoassay (Nakajo, S. (741) 180)

Poly(ADP-ribose) polymerase
Benzamide; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; C57Bl/6 mouse; Striatal dopamine; Cortical noradrenaline (Cosi, C. (729) 264)

Benzamide; Methamphetamine; Neurotoxicity; Neuroprotection; Striatal dopamine; C57Bl/6N mouse (Cosi, C. (735) 343)

Poly-ADP-ribosylation
ADP-ribosylation; Mono-ADP-ribosylation; Nitric oxide; *N*-Methyl-D-aspartate; Traumatic brain injury; CA1; Hippocampus (Wallis, R.A. (710) 169)

Polyamine amide toxin
Excitotoxicity; Neuroprotection; Cerebellar granule cell; Excitatory amino acid receptor (Green, A.C. (717) 135)

Poly(butylcyanoacrylate)
Analgesia; Blood–brain barrier; Dalargin; Nanoparticle; Mouse (Schröder, U. (710) 121)

Polydipsia
Hyperosmotic stress; Hypothalamo-neurohypophysial system; Hypophysial stalk transection; Supraoptic nucleus; Vasopressin (Huang, Y.-S. (732) 95)

Polyethylene glycol
AT-1 receptor antagonist; Magnocellular hypothalamic nuclei; Lamina terminalis; EXP 3174; Isoproterenol; Hypovolemia (Rowland, N.E. (742) 253)

Polyglycolic acid-collagen tube
Peripheral nerve regeneration; Horseradish peroxidase; Somatosensory evoked potential; Electromyogram; Cat sciatic nerve; Intracellular recording from motoneuron; Reinnervation, misdirected (Kiyotani, T. (740) 66)

Polymer
Recombinant human nerve growth factor; Diffusion; Controlled release; Brain interstitium; Diffusion; Elimination (Krewson, C.E. (727) 169)

Transplant; GDNF; Aging; Striatum; Dopamine; Behavior (Emerich, D.F. (736) 99)

Polymerase chain reaction
Insulin; Brain; Spinal cord; Dorsal root ganglia; mRNA; In solution hybridization; Electron microscopy (Schechter, R. (736) 16)

Polymodal receptor
Manual acupuncture; Capsaicin; DNIC; Rat; C fiber; Jaw opening reflex; Digastric EMG (Okada, K. (740) 201)

Pons
Somatostatin binding site; Receptor mapping; Medulla; Human; Quantitative autoradiography (Carpentier, V. (734) 135)

Pontine nucleus
Auditory physiology; Fos immunoreactivity; Double labeling; Horseradish peroxidase (Qian, Y. (731) 241)

Pontine tegmentum
Human brain; Alzheimer's disease; Aging; Immunocytochemistry (Van Zwieten, E.J. (711) 146)

Population spike
Paroxysmal discharge; Paired pulse depression; 2-Amino-5-phosphonovalerate; Excitability; Disinhibition (Masukawa, L.M. (721) 132)

Dexamethasone; Amino acid; Hippocampus; Striatum; Microdialysis; ACTH; Corticosterone (Ábrahám, I. (733) 56)

Portal vein
Dorsal motor nucleus of vagus; Gastric vagus; Osmoreceptor; Hepatic; Water; Hypotonic; Na^+ concentration; Mannitol; Rat (Kobashi, M. (706) 21)

Positron emission tomography
Metabolic rate constant; Hexokinase; Cholinergic system; Ibotenic acid (Ouchi, Y. (706) 267)

L-[β-^{11}C]DOPA; Tetrahydrobiopterin; Dopamine; L-Tyrosine; Monkey brain (Tsukada, H. (713) 92)

Regional cerebral blood flow; Self-paced movement; Somatotopical organization; Human brain (Kawashima, R. (716) 141)

Glucose metabolism; Attention; Anterior cingulate; Thyroid receptor β (Matochik, J.A. (723) 23)

Regional cerebral blood flow; GO/NO-GO; Response selection; Prefrontal cortex (Kawashima, R. (728) 79)

Post-effect
Motor unit; Wrist extensor muscle; Human; Post-vibratory contraction; Electromyography (Ribot-Ciscar, E. (716) 84)

Postembedding
γ-Aminobutyric acid; Neurotensin; Synapse; Rat; Double immunostaining; Preembedding (Wang, Q.-P. (730) 118)

Postembedding immunocytochemistry
Electron microscopy; Vestibular nuclei; Eye movement; Vestibulo-ocular reflex (Wentzel, P.R. (707) 314)

Posterior hypothalamic nucleus
Circadian rhythm; [^{3}H]D-Aspartate; Ventromedial hypothalamic nucleus; Paraventricular thalamic nucleus; Lateral septal nucleus (Moga, M.M. (743) 171)

Posterior hypothalamus
Noradrenaline; Wistar rat; Intracranial microdialysis; Recovery; Sevoflurane; Halothane (Chave, S. (706) 293)

Post-ingestive mechanisms
Maltose dextrin; Water deprivation; μ-Receptor; κ-Receptor; δ-Receptor; Sham feeding; Sham drinking; Palatability (Leventhal, L. (741) 300)

Postischemic alkalinization
Cerebral ischemia; Hyperglycemia; Energy metabolism; Intracellular pH (Katsura, K.-i. (726) 57)

Postischemic hypothermia
Cerebral injury; Transient focal ischemia; Rat neocortex (Yanamoto, H. (718) 207)

Postmortem brain
Schizophrenia; Serotonin-5-HT_{1A} receptor; [^{3}H]8-OH-DPAT; Up-regulation; Prefrontal cortex (Sumiyoshi, T. (708) 209)

Postmortem human brain
Alzheimer's disease; Adenylyl cyclase; G-protein; cAMP-dependent protein kinase (Bonkale, W.L. (737) 155)

Postnatal
CA1 neuron; Culture; Glutamate; Hypoxia; Nitric oxide; Platelet activating factor; Rat (Ohmori, T. (743) 109)

Postnatal development
Autoradiography; Dopamine receptor; Auditory imprinting; Chick; Learning and memory (Schnabel, R. (720) 120)

Zif268; Spinal cord; Afferent stimulation; Rat (Liang, F. (729) 246)

Postnatal gene expression
Adrenal steroids; Glucocorticoids; Heme oxygenase; Carbon monoxide; Neuronal development (Maines, M.D. (722) 83)

Postsynaptic
Hippocampus; Long-term potentiation; Glutamate receptor binding; Environmental enrichment; Memory (Foster, T.C. (736) 243)

Postsynaptic inhibition
Presynaptic inhibition; Interneuron; Somatosensory; Cuneate nucleus; Gracile nucleus (Popratiloff, A. (706) 308)

Post-translational modification
Dentatorubral-pallidoluysian atrophy; CAG trinucleotide repeat; Two-dimensional electrophoresis; Isoelectric variant; Lymphoblastoid cell (Yazawa, I. (732) 154)

Postural asymmetry
Sensorimotor cortex; Dendritic branching; Dendritic spine; Use-dependent neural growth; Astrocyte; Microglia; Glial fibrillary acidic protein (Forgie, M.L. (710) 249)

Postural reflex
Focal cerebral ischemia; Ischemic depolarization; Penumbra; Forelimb; Beam balance; Rat (Alexis, N.E. (706) 273)

Posture
Vestibular reflex; Respiration; Larynx; Pharynx; Tongue (Siniaia, M.S. (736) 160)

Post-vibratory contraction
Motor unit; Wrist extensor muscle; Human; Post-effect; Electromyography (Ribot-Ciscar, E. (716) 84)

Potassium
Glial cell; Na/K pump; Oligodendrocyte; Patch clamp; N20.1 cell line; Potassium homeostasis (Dobretsov, M. (724) 103)

Astrocyte; Volume regulation; Methylmercury; Sodium; Taurine (Vitarella, D. (732) 169)

Potassium channel
Epilepsy; Oocyte; *Xenopus laevis*; Pentylenetetrazol; Seizure (Madeja, M. (722) 59)

Neuroblastoma; Patch-clamp; Sodium channel; Action potential (Gu, X.Q. (735) 50)

Spinal cord injury; Axon; 4-Aminopyridine; Tetraethylammonium (Fehlings, M.G. (736) 135)

Potassium current
Satellite glial cell; Patch-clamp; Neuronal activity; Tetrodotoxin; Reserpine (Konishi, T. (708) 7)

Dorsal root ganglion; Tachykinin; NK_1 receptor; M-Current; G-Protein (Akasu, T. (713) 160)

Frog neuromuscular junction; Niflumic acid; Non-steroidal antiinflammatory drug; Calcium current; Presynaptic current; Acetylcholine; Quantal transmitter release; Synaptic depression (Miralles, F. (714) 192)

P70; Anti-P70 antibody; Negative slope resistance; Bursting activity; *Euhadra* neuron (Onozuka, M. (716) 187)

HEPES; Membrane potential; Calcium current (Cowan, A.I. (717) 69)

Modulation; Inhibition; Transmembrane signaling (Villarroel, A. (740) 227)

Potassium homeostasis
Glial cell; Potassium; Na/K pump; Oligodendrocyte; Patch clamp; N20.1 cell line (Dobretsov, M. (724) 103)

Potentiation
Purinoceptor; CA3; Calcium current; Voltage clamp (Dave, S. (715) 208)

Fos; Spinal cord; Arthritis; Inflammation; Formalin (Leah, J.D. (719) 104)

Potentiation, long-term
Hippocampus; Noradrenaline (Harley, C.W. (710) 293)

Power spectrum
Nonselective cation channel; G protein; Mg^{2+}; Unit conductance; Muscarinic receptor (Inoue, M. (739) 350)

P_2 Purinoceptor
Cytosolic Ca^{2+} concentration; Cyclic AMP accumulation; NG108-15 cell (Song, S.-L. (734) 243)

Pramipexole
Nigrostriatal; Degeneration; Neuroprotection; Ischemia; Methamphetamine (Hall, E.D. (742) 80)

Praxis
Constructional apraxia; Dystrophic neurite; AT8; Neurofibrillary tangle; β-Amyloid; Occipital cortex; Parietal lobe (Nielson, K.A. (741) 284)

PRE-084
Sigma (σ) agonists; Learning and memory; Aging; Passive avoidance; Y-maze; Watermaze; JO-1784 (igmesine); Senescence-accelerated mouse (SAM) (Maurice, T. (733) 219)

Precentral cortex
Monkey; Primary motor cortex; Corticospinal tract; Immunocytochemistry; Calcium-binding proteins; Seizure; Epilepsy (Preuss, T.M. (712) 353)

Preconditioning
Adenosine; Ischemic injury; Ischemia-reperfusion damage; Ischemic tolerance; Neuronal culture; N^6-(R)-phenylisopropyladenosine (R-PIA); 8-Sulphophenyl theophylline (SPT) (Reshef, A. (741) 252)

Precursor cell
Subventricular zone; Proliferation; GFAP; [^{3}H]Thymidine; Migration; Lesion (Weinstein, D.E. (743) 11)

Predatory attack behavior
Medial amygdala; Stria terminalis; Substance P; Substance P (NK_1) receptor antagonist CP96,345; Cat; Hypothalamus (Han, Y. (716) 59)

Medial amygdala; Hypothalamus; GABA; $GABA_A$ receptor; Muscimol; Bicuculline; Cat (Han, Y. (716) 72)

Preembedding
γ-Aminobutyric acid; Neurotensin; Synapse; Rat; Double immunostaining; Postembedding (Wang, Q.-P. (730) 118)

Preference
Androgen; Brain; Marking; Sexual behavior; Ultrasonic vocalizations; Urine; Mouse (Sipos, M.L. (729) 29)

Prefrontal cortex
Thalamus; Ultrastructure; Synapse; Golgi-EM; Anterograde degeneration (Kuroda, M. (708) 185)

Schizophrenia; Serotonin-5-HT_{1A} receptor; [^{3}H]8-OH-DPAT; Up-regulation; Postmortem brain (Sumiyoshi, T. (708) 209)

Delayed Matching to Position; Cholinergic system; Scopolamine; Working memory; Selective attention; Rat (Herremans, A.H.J. (711) 102)

Prefrontal cortex
Ethanol; Serotonin; Glutamate; Microdialysis; Nucleus accumbens (Selim, M. (716) 157)

Stress; Glutamate; γ-Aminobutyric acid; Dopamine; Microdialysis; Diazepam (Karreman, M. (716) 180)

Alcohol; Frontal lobe; Frontal cortex brain lesion; Serotonin; Dopamine; Nucleus accumbens; Raphe; Sucrose fading; Biological basis of reinforcement (Deckel, A.W. (723) 70)

Regional cerebral blood flow; Positron emission tomography; GO/NO-GO; Response selection (Kawashima, R. (728) 79)

Cognition; Pigeon; Hippocampus; Homing behavior; Pathway tracing (Leutgeb, S. (730) 173)

$GABA_A$ receptor complex; [^{3}H]Flunitrazepam binding; [^{3}H]Muscimol binding; Aging (Ruano, D. (738) 103)

Dopamine release; Microdialysis; Stress; Arousal; Handling; Novelty; Food consumption (Feenstra, M.G.P. (742) 17)

2-Fluorodeoxyglucose; Brain development; Associative learning; Memory; Conspecific vocalization (Poeggel, G. (743) 162)

Restraint; Oxotremorine; Locomotor activity; Acetylcholine; Muscarinic receptor; DBA/2 mice (Pullia, D. (743) 333)

R(+)-8-OH-DPAT; D-Amphetamine; Serotonin; Dopamine; 5-HT_{1A} receptor; Anxiety; Microdialysis; Rat (Kuroki, T. (743) 357)

Pregnancy
Rabbit; Vasopressin; Oxytocin; Immunochemistry; Hypothalamus; Parturition; Estrus; Maternal behavior (Caba, M. (720) 7)

Nitric oxide; Neuroendocrine function; Nitric oxide synthase (Woodside, B. (739) 339)

5α-Reductase; Brain; Prenatal development; Neurosteroids; Open-field behavior; Rodent; Finasteride (Proscar) (Lephart, E.D. (739) 356)

Immobilization stress; c-*fos*; Rat; Lactation; Corticosterone; Paraventricular nucleus (Da Costa, A.P.C. (742) 177)

Pregnanolone
$GABA_A$; Steroid; Barbiturate; Regulation; Modulation; Uncoupling; Tolerance (Friedman, L.K. (707) 100)

Pre-motor neuronal activity
Limbic thalamus; Cingulate cortex; Single-unit activity; Avoidance learning; Discrimination (Kubota, Y. (721) 22)

Prenatal
Cocaine; Dopamine; Nucleus accumbens; Frontal cortex; Microdialysis; Mesolimbic (Keller Jr., R.W. (742) 71)

Prenatal alcohol exposure
Sleep; Memory; Glucose; Spontaneous alternation; Radial arm maze; Inhibitory avoidance (Stone, W.S. (742) 98)

Prenatal development
5α-Reductase; Brain; Pregnancy; Neurosteroids; Open-field behavior; Rodent; Finasteride (Proscar) (Lephart, E.D. (739) 356)

Prenatal stress
Handling; Hypothalamo-pituitary-adrenal axis; Plasma glucose; Body weight; Feeding behavior; Rat (Vallée, M. (712) 287)

Preoptic area
Microdialysis; 5HT; Progesterone; Ventromedial hypothalamus; Midbrain central grey; Lordosis (Farmer, C.J. (711) 84)

Anterior hypothalamus; Thermosensitive neuron; Thermosensitivity; Wakefulness; Non-rapid eye movement sleep (Alam, Md.N. (718) 76)

Estrogen receptor; Progesterone receptor; Sex difference; Hypothalamus; Autoradiography; Estrogen; Guinea pig (Brown, T.J. (725) 37)

Anterior hypothalamus; Brain microdialysis, in vivo; Endotoxin; Body temperature; Prostaglandin E_2; Neuroimmunomodulation; Cytokine (Sehic, E. (726) 160)

Sleep deprivation; Cat; c-*fos*; Stress; Sleep (Ledoux, L. (735) 108)

Nitric oxide; *N*-Methyl-D-aspartate; Sodium nitroprusside; Estrogen; Progesterone; Norepinephrine; Hypothalamus (Chu, H.-P. (741) 60)

Progesterone; Sexual behavior; Luteinizing hormone; Ventromedial hypothalamus; Female; Sheep (Blache, D. (741) 117)

Glutamic acid decarboxylase; Suprachiasmatic nucleus; Sexual dimorphism; Human GABA (Gao, B. (742) 163)

Preoptic region
Vasotocin; Vasopressin; Aging; Sexual behavior; Avian brain; Quantitative analysis (Panzica, G.C. (712) 190)

Preproenkephalin
mRNA; Opioid; Nitrous oxide; Hypothalamus; Met-enkephalin (Agarwal, R.K. (730) 47)

Astrocyte; Glia; Opioid peptide; Neuron–glia interaction; Glucocorticoid; Cyclic AMP (McMillian, M.K. (730) 67)

Preprotachykinin; Zif/268; *p*CPA; *N*-Methyl-D-aspartate receptor; Basal ganglia (Cummings, T.J. (743) 240)

Preproenkephalin mRNA
Neurological mutant mouse; Rolling mouse Nagoya; Basal ganglia; Preprotachykinin mRNA; Dopamine D_2 receptor binding assay (Taniwaki, T. (714) 231)

Preprotachykinin
Nerve growth factor receptor; mRNA; Dorsal root ganglia; Peripheral inflammation; Pain; In situ hybridization (Cho, H.-J. (716) 197)

Preproenkephalin; Zif/268; *p*CPA; *N*-Methyl-D-aspartate receptor; Basal ganglia (Cummings, T.J. (743) 240)

Preprotachykinin mRNA
Neurological mutant mouse; Rolling mouse Nagoya; Basal ganglia; Preproenkephalin mRNA; Dopamine D_2 receptor binding assay (Taniwaki, T. (714) 231)

Prepulse inhibition
Nucleus accumbens; Sensorimotor gating; Startle; Schizophrenia (Wan, F.-J. (722) 168)

Presynaptic
Behavioral sensitization; Dopamine; Glutamate; Striatum; Substantia nigra; Basal ganglia (Garcia-Munoz, M. (720) 131)

Brain slice; Hippocampus; CA1; $GABA_B$; Receptor; Synaptic transmission; Cerebrolysin (Xiong, H. (737) 188)

Presynaptic Ca^{2+} influx
Glucose deprivation; Kainate; Glutamate; $[Ca^{2+}]_o$; Field potential; Hippocampal slice; Rat (Alici, K. (738) 109)

Presynaptic current
Frog neuromuscular junction; Niflumic acid; Non-steroidal antiinflammatory drug; Potassium current; Calcium current; Acetylcholine; Quantal transmitter release; Synaptic depression (Miralles, F. (714) 192)

Presynaptic inhibition
Postsynaptic inhibition; Interneuron; Somatosensory; Cuneate nucleus; Gracile nucleus (Popratiloff, A. (706) 308)

Presynaptic muscarinic receptor
Acetylcholine; Behavioral inhibition; Dentate gyrus; Freezing; Hippocampus; Oxotremorine; Septohippocampal cholinergic system; Preweanling rat; Ultrasonic vocalization (Takahashi, L.K. (731) 230)

Presynaptic nicotinic receptor
Intraterminal calcium; Sympathetic neuron; Noradrenaline release; Calcium channel (Doležal, V. (740) 75)

Presynaptic release
Dopamine; Neurotoxicity; Glutamate; Astrocyte (Gracy, K.N. (739) 169)

Preweanling rat
Acetylcholine; Behavioral inhibition; Dentate gyrus; Freezing; Hippocampus; Presynaptic muscarinic receptor; Oxotremorine; Septohippocampal cholinergic system; Ultrasonic vocalization (Takahashi, L.K. (731) 230)

Primary afferent
Horseradish peroxidase; Proprioception; Neurobiotin; Rat (Luo, P. (710) 260)

Serotonin; $5\text{-}HT_{1A}$ receptor; $5\text{-}HT_{2A/2C}$ receptor; Spinal cord; α-Motoneuron; Monosynaptic reflex (Hasegawa, Y. (738) 158)

Primary afferent fiber
Nerve growth factor; Capsaicin; Neuropeptide; Neuroregeneration; Rat (Donnerer, J. (741) 103)

Primary culture
Fluorescent dye; Receptor localization; Mitochondrion (Hoyt, K.R. (731) 21)

Brain endothelium; Cell adhesion molecule; CD31 (Wong, D. (731) 217)

Primary hippocampal neuron
Transforming growth factor-β; β-Amyloid peptide; Alzheimer's disease; Neuroprotection; Neuroblastoma cell line (Ren, R.F. (732) 16)

Primary motor cortex
Monkey; Precentral cortex; Corticospinal tract; Immunocytochemistry; Calcium-binding proteins; Seizure; Epilepsy (Preuss, T.M. (712) 353)

Primary muscle spindle afferent
Succinylcholine effect; Fusimotor effect (Schäfer, S.S. (709) 111)

Primary neuronal culture
Alzheimer's disease; Amyloid precursor protein; Immunocytochemistry; Growth cone; Phalloidin; Time-lapse microscopy (Storey, E. (735) 59)

Primate
C-fos; Immediate early genes; Dopamine; Caudate nucleus; Putamen; Striosome (Asin, K.E. (719) 138)

Zif268; Immediate early gene; Visual system; Ocular dominance column; Development; Plasticity (Silveira, L.C.L. (732) 237)

Myelin; Myelin-associated glycoprotein; Myelin basic protein; Protease (Möller, J.R. (741) 27)

Primate brain
AMPA; Dog; Glutamate receptor; Ischemia; Kainate; NMDA (Hof, P.R. (723) 77)

Primed-burst depression
Hippocampal slice; Pentylenetetrazol kindling; Primed-burst potentiation; Field potential (Fathollahi, Y. (738) 138)

Primed-burst potentiation
Hippocampal slice; Pentylenetetrazol kindling; Primed-burst depression; Field potential (Fathollahi, Y. (738) 138)

Priming
Transplant; Dopamine; Neonate; Sensitization; Conditioning (Abrous, D.N. (708) 21)

Sensitization; Dose–response relationship; Apomorphine (Gancher, S. (729) 190)

Procaine
Conditioned place preference; Ventral pallidum; Reward; Locomotor activity; Cocaine; Amphetamine; Dopamine; Nucleus accumbens (Gong, W. (707) 64)

Tonic inhibition; Temperature increase; Metabolic heat production; Interscapular brown adipose tissue; Propranolol; Indomethacin (Shibata, M. (716) 171)

Processing
Amyloid precursor protein; β-Amyloid; Alzheimer's disease; Alkalizing agent; Endocytosis; Intracellular compartment (Schrader-Fischer, G. (716) 91)

Progestagen
Androgen; 5α-Reductase; Glial fibrillary acidic protein; Astrocyte; Rat; Central nervous system (Melcangi, R.C. (711) 10)

Progesterone
Benzodiazepine; Back muscle; Lordosis; Midbrain central gray (MCG); Periaqueductal gray (PAG); Reticular formation; Muscle relaxant (Schwartz-Giblin, S. (710) 178)

Microdialysis; 5HT; Ventromedial hypothalamus; Preoptic area; Midbrain central grey; Lordosis (Farmer, C.J. (711) 84)

$GABA_B$ receptor; Steroid hormone; Neocortex; Female rat (Al-Dahan, M.I. (727) 40)

Cerebral ischemia; Neuronal damage; Rat (Jiang, N. (735) 101)

Arginine vasopressin; Estrogen; Lactation; Oxytocin; Paraventricular nucleus (Thomas, A. (738) 48)

Nitric oxide; *N*-Methyl-D-aspartate; Sodium nitroprusside; Estrogen; Norepinephrine; Hypothalamus; Preoptic area (Chu, H.-P. (741) 60)

Sexual behavior; Luteinizing hormone; Ventromedial hypothalamus; Preoptic area; Female; Sheep (Blache, D. (741) 117)

c-*fos*; Sexual stimulation; Reproductive behavior; Estradiol (Pfaus, J.G. (741) 314)

Progesterone receptor
Estrogen receptor; Sex difference; Hypothalamus; Preoptic area; Autoradiography; Estrogen; Guinea pig (Brown, T.J. (725) 37)

Progestin
Nociception; Pain sensitivity; Tailflick latency; Steroid hormone; Membrane mechanism; Nongenomic; γ-Aminobutyric acid; Lordosis (Frye, C.A. (709) 1)

Programmed cell death
Cortical neuron; PC12; Serum deprivation; Nerve growth factor; Reactive oxygen species (Satoh, T. (733) 9)

Apoptosis; Stroke; Glutamate; Cycloheximide; Excitotoxicity; Propidium iodide (Kharlamov, A. (734) 1)

Progressive supranuclear palsy
Acute phase protein; Alzheimer's disease; Ceruloplasmin; Copper; Huntington's disease; Parkinson's disease (Loeffler, D.A. (738) 265)

Projection neuron
Visual system; Development; Optic tectum; Acetylcholine; Cuneiform nucleus (Banfro, F.T. (733) 273)

Taste; Gustatory; Anatomy; DiI; Biotinylated dextran; Nucleus tractus solitarius (Williams, J.B. (737) 231)

Prolactin
T3; Estrogen; Pituitary D-2 receptor; Thyroxine; Thyrotrophin; cAMP (Nedvídková, J. (712) 148)

Norepinephrine; Vasopressin; Oxytocin; Conditioned fear; Novelty stress; Motor activity; Noxious stimulus (Onaka, T. (713) 261)

Behavioral lateralization; Stress response; Inbred mouse; *Agouti* (Waters, N.S. (724) 112)

Rat; Female; Central administration; Ovariectomy; Food intake; Hyperphagia; Food restriction (Sauvé, D. (729) 75)

Quinelorane; Deafferentation; κ Opioid receptor; U-50,488; Nor-binaltorphimine (Durham, R.A. (732) 113)

Ibogaine; Corticosterone; Dopamine; Serotonin (Ali, S.F. (737) 215)

Proliferation
Retina; Cell distribution; Rod progenitor; Teleost (Kwan, J.W. (712) 40)

Cyclic adenosine 3′, 5′-monophosphate; Differentiation; Forskolin; Galactocerebroside (Yamada, H. (719) 187)

Subventricular zone; Precursor cell; GFAP; [^{3}H]Thymidine; Migration; Lesion (Weinstein, D.E. (743) 11)

Prolonged inhibition
Rat; Spinal cord; In vitro; GABA; $GABA_B$ (Lacey, G. (717) 76)

Prolyl-leucyl-glycinamide
PLG analog; MIF-1; Striatal dopamine receptor; 6-Hydroxydopamine lesion; Apomorphine (Ott, M.C. (737) 287)

Promoter
Cyclic adenosine monophosphate-regulated phosphoprotein-21 (ARPP-21); Limbic striatum; Gene structure; Transfection; Repression (Ivkovic, S. (709) 10)

Gene regulation; Transcription; Cloning (King, P.H. (723) 141)

Propagation block
Single unit recording; Action potential shape; Template matching; Human peripheral nerve; Concentric needle electrode; Microneurography (Wu, G. (742) 225)

Propentofylline
Cerebral ischemia; Middle cerebral artery occlusion; Rat; Striatum (Matsumoto, K. (723) 228)

Cerebral blood flow; Glucose utilization; Adenosine (Grome, J.J. (740) 41)

Propidium iodide
Programmed cell death; Apoptosis; Stroke; Glutamate; Cycloheximide; Excitotoxicity (Kharlamov, A. (734) 1)

Propranolol
Bevantolol; Lidocaine; Nicardipine; Ca^{2+}-antagonistic action; CNS neuron (Omura, T. (706) 289)

Tonic inhibition; Temperature increase; Metabolic heat production; Interscapular brown adipose tissue; Procaine; Indomethacin (Shibata, M. (716) 171)

Proprioception
Horseradish peroxidase; Primary afferent; Neurobiotin; Rat (Luo, P. (710) 260)

Muscle spindle; Kinaesthesia; Intrafusal; Elbow joint; Contraction; Stretch; Afferent; Sensation (Wise, A.K. (735) 125)

Tachykinin receptor; Substance P; Immunofluorescence; Confocal microscopy (McGonigle, D.J. (742) 1)

Proprioceptive reflex
Human gait; Tendon jerk reflex; Biceps femoris; Phase-dependent reflex modulation (Van de Crommert, H.W.A.A. (734) 341)

Prostaglandin
Bradykinin; Capsaicin; Nifedipine; ω-Conotoxin; ω-Agatoxin; Release; Voltage-sensitive calcium channel (Evans, A.R. (712) 265)

Perivascular cell; Vascular (Breder, C.D. (713) 64)

Interleukin-1β; Hyperalgesia; Diclofenac; α-Melanocyte-stimulating hormone; Cytokine; Central nervous system (Oka, T. (736) 237)

Cyclooxygenase-1; Cyclooxygenase-2; Formalin test; Hot plate test (Yamamoto, T. (739) 104)

Prostaglandin E_2
Preoptic area; Anterior hypothalamus; Brain microdialysis, in vivo; Endotoxin; Body temperature; Neuroimmunomodulation; Cytokine (Sehic, E. (726) 160)

Prostanoid receptor
Astrocyte; Oligodendrocyte; Microglia; Reverse transcriptase-polymerase chain reaction; Messenger RNA expression; Cell differentiation (Kitanaka, J. (707) 282)

Protease
Differentiation; Cholinergic system; Growth factor; Protease activated receptor (Debeir, T. (708) 159)

Ubiquitin; Proteasome; Multicatalytic; Myelin basic protein; Brain (Akaishi, T. (722) 139)

Myelin; Myelin-associated glycoprotein; Myelin basic protein; Primate (Möller, J.R. (741) 27)

Protease activated receptor
Differentiation; Cholinergic system; Protease; Growth factor (Debeir, T. (708) 159)

Proteasome
Ubiquitin; Protease; Multicatalytic; Myelin basic protein; Brain (Akaishi, T. (722) 139)

Protection
Nerve growth factor; Clenbuterol; Hippocampal culture; Excitotoxicity; Glutamate; Cerebral ischemia (Semkova, I. (717) 44)

G-Protein
Dorsal root ganglion; Tachykinin; Potassium current; NK_1 receptor; M-Current (Akasu, T. (713) 160)

τ Protein
Protein phosphatase; Dephosphorylation; Schizophrenia; Neurofibrillary tangle; Alzheimer's disease (Gong, C.-X. (741) 95)

Proteinase inhibitor
Neurodegeneration; Microglia; Senile plaque; Dementia; Lipoprotein associated coagulation inhibitor (Hollister, R.D. (728) 13)

Protein carbonyl
Aging; Synaptic mitochondrion; Complex I; Complex IV (Martinez, M. (731) 246)

G-Protein coupled receptor
Substance P; Neurokinin-1; Striatum; Parotid; Submaxillary; Immunocytochemistry; Receptor autoradiography; Tachykinin; Receptor heterogeneity (Mantyh, P.W. (719) 8)

Protein gene product 9.5
Circumvallate papilla; Transgenic mouse; Nerve growth factor; Tyrosine hydroxylase; Aging (Takami, S. (707) 303)

Protein kinase
Cerebral ischemia; Stroke; Excitotoxic amino acid; Glutamate; Phospholipase (Phillis, J.W. (730) 150)

Ventromedial hypothalamic nucleus; 2,3-Butanedione monoxime; Glycine; Chloride current; Phosphorylation; Phorbol 12,13-dibutyrate; Chelerythrine (Ye, J.-H. (735) 20)

5-Hydroxytryptamine uptake; Calcium ion; Cerebral cortex; Calmodulin; Transporter (Yura, A. (738) 96)

Protein kinase A
Long-term memory; Learning; cAMP analog; Habituation; Crustacea (Romano, A. (735) 131)

Forskolin; diB-cAMP; Sp-cAMPS; Macropatch; Miniature end-plate current; Tadpole; *Bufo marinus* (Quiñonez, M. (737) 327)

Protein kinase C
Aplysia californica; Acetylcholine; Acetylcholine receptor; Phorbol ester; Protein kinase C activator (Papp, A. (708) 123)

Muscarinic receptor; Medial septum; Hippocampus; Sympathetic ingrowth; Lesion; PKC activity; Plasticity (Ayyagari, P.V. (708) 205)

Glioma; Inhibitor; Tyrosine kinase; Signal transduction (Baltuch, G.H. (710) 143)

Brain injury; Fluid percussion; Diacylglycerol (Padmaperuma, B. (714) 19)

Ethanol; Ca^{2+} release; Ca^{2+} store; Cytoskeleton (Mironov, S.L. (714) 27)

Inhibition; Mouse; Sciatic nerve; Immunohistochemistry; Regeneration (Wiklund, P. (715) 145)

Nitric oxide; cGMP; Glutamate; *N*-Methyl-D-aspartate; Cerebellar granule cell (Riccio, A. (718) 159)

Laminin; Axon; Growth cone; Lipoxygenase; Lysophosphatidic acid; Ceramide (Smalheiser, N.R. (721) 39)

Opioid; Phosphorylation; Tolerance; Dependence; cAMP; Opiate receptor (Wang, L. (723) 61)

Brain-derived neurotrophic factor; Nerve growth factor; TrkB receptor; Cortex; cyclic AMP (Barnea, A. (732) 52)

Adenylate cyclase; ACTH; cAMP; Cancer; Pituitary gland; Receptor desensitization; Receptor down-regulation (Dieterich, K.D. (733) 113)

Long-term potentiation; F1/GAP-43; Mossy fiber; Phosphorylation; Hippocampus (Son, H. (739) 282)

AChR subunit; Phosphorylation; Mutation; Xenopus oocyte; Phorbol ester (Limatola, C. (742) 172)

Protein kinase C-$\alpha\beta$
Human brain; Aging; Protein kinase C activity; G_i protein (Busquets, X. (710) 28)

Protein kinase C activator
Protein kinase C; *Aplysia californica*; Acetylcholine; Acetylcholine receptor; Phorbol ester (Papp, A. (708) 123)

Cell culture; Growth factor; Protein kinase C inhibitor; Cellular proliferation; Psychosine (Yamada, H. (718) 138)

Protein kinase C activity
Human brain; Aging; Protein kinase C-$\alpha\beta$; G_i protein (Busquets, X. (710) 28)

Protein kinase C γ
Chemoshock; Neuromodulin; Hippocampus (Chen, C.-C. (725) 75)

Protein kinase C inhibitor
Cell culture; Growth factor; Protein kinase C activator; Cellular proliferation; Psychosine (Yamada, H. (718) 138)

Protein level
Nitric oxide synthase; Nitric oxide; Circadian rhythm; Sleep; Central nervous system; Hypothalamus; Rat (Ayers, N.A. (707) 127)

Protein malnutrition
Hippocampus; Neuronal degeneration; Mossy fiber-CA3 synapse; Stereology; Rat (Andrade, J.P. (718) 1)

Protein phosphatase
τ Protein; Dephosphorylation; Schizophrenia; Neurofibrillary tangle; Alzheimer's disease (Gong, C.-X. (741) 95)

Protein synthesis
CA1; Carbon monoxide; Gene expression; Heme; Hippocampus; Hypoxia; Ischemia; Ischemic tolerance; Neuronal death; Neuroprotection; Stroke (Gage, A.T. (719) 172)

Protein synthesis inhibition
Cycloheximide; Brain slice; Global cerebral ischemia (Buchkremer-Ratzmann, I. (743) 329)

Protein synthesis inhibitor
Circadian rhythm; Locomotor activity; Phase shift; Immediate-early gene; Cycloheximide (Zhang, Y. (740) 285)

Protein tyrosine kinase inhibitor
Lipopolysaccharide; Nitric oxide; Inducible nitric oxide synthase; Microglia; Astrocyte (Kong, L.-Y. (729) 102)

Proteolipid protein
Neuronatin; Chromosome 20; Development; Brain; Phospholamban; PMP1; Cation channel; ATPase; Neural restrictive silencer element (Dou, D. (723) 8)

Proximal axonopathy
Axonal transport; Dorsal root ganglia; 3,3′-Iminodipropionitrile; Myelinated perikarya; Neurofilament; Neurotoxicity; Vestibular ganglia (Llorens, J. (717) 118)

PSP amplitude
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Psychological stress
Neuropeptide Y; Arousal; Corticotropin-releasing hormone; Sodium pentobarbital; Locomotor activity; Sedative action (Yamada, K. (725) 272)

Psychomotor effects
Corticosterone; Cocaine; Metyrapone; Stress-induced sensitization; Food restriction; Locomotor response (Marinelli, M. (724) 251)

Psychomotor stimulant
Methylphenidate; Ritalin; Dose response; Motor activity; Behavior (Gaytan, O. (727) 13)

Psychoneuroimmunology
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Psychosine
Cell culture; Growth factor; Protein kinase C activator; Protein kinase C inhibitor; Cellular proliferation (Yamada, H. (718) 138)

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Autoradiography; Basal ganglia; Dopamine D_3 receptor; Dyskinesia; L-DOPA; Marmoset; MPTP (Hurley, M.J. (709) 259)

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Pulsed nitrogen laser
Myenteric neuron; Calbindin-D_{28}; Intracellular free calcium; ATP; AH/Type 2; Dogiel type II; S/Type 1; Enteric glia (Christofi, F.L. (725) 241)

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Purification
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Purine
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Kainic acid; Adenosine; Neuroprotection; Neurodegeneration (MacGregor, D.G. (725) 115)

Purinoceptor
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Purkinje cell
Vestibular rotation; Decerebrate cat; Flocculus; Adaptation (Powell, K.D. (710) 281)

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Nitric oxide; Mercury poisoning; Cerebellum (Himi, T. (718) 189)

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Cyclin-dependent kinase; Immunohistochemistry; Trigeminal ganglia; Nuclear protein; Central nervous system; Peripheral nervous system (Ino, H. (732) 179)

Ibogaine; Cerebellum; Neurotoxicity; Zebrin; Glial fibrillary acidic protein; Fink-Heimer stain (Molinari, H.H. (737) 255)

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Push-pull perfusion
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Putamen
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Dopamine; Parkinson; Striatum; L-DOPA; Motor (Cousins, M.S. (732) 186)

Putrescine
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PVN
Arousal; Light reflectance; Optical imaging; Sleep; Paraventricular hypothalamus; PVH; REM; Waking; Slow wave; Neuroendocrine (Kristensen, M.P. (727) 107)

Pyramidal cell
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Somatostatin binding site; Receptor mapping; Pons; Medulla; Human (Carpentier, V. (734) 135)

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Quantitative receptor autoradiography
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Quinine
Neuromuscular transmission; Quinidine; Chloroquine; Transmitter release; Acetylcholine receptor; Channel block; Patch-clamp analysis (Sieb, J.P. (712) 179)

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Quinolinic acid
N-Methyl-D-aspartate; Excitotoxicity; Apoptosis; DNA fragmentation; Neurodegeneration; Huntington's disease (Qin, Z.-H. (725) 166)

Apomorphine; Excitotoxicity; Kainate; Neostriatum; *N*-Methyl-D-aspartate; Metabotropic glutamate receptor (Colwell, C.S. (726) 223)

Quinone
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Quinpirole
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1(*R*)
2(*N*)-Dimethyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline (*N*-methyl-(*R*)-salsolinol); Animal model; Parkinson's disease; Dopamine; Tyrosine hydroxylase; 6,7-Dihydroxyisoquinolinium ion (Naoi, M. (709) 285)

R_{max}
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Rab3a
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Rabbit
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Rabbit caudate nucleus
3,4-Diaminopyridine; Dopamine release; Acetylcholine release; Nitric oxide; Autoreceptor; Opioid receptor; Adenosine receptor (Ries, V. (743) 303)

Rabbit retina
Rod pathway; APB; AII; Scotopic; Narrow-field bistratified amacrine (Jin, X.T. (708) 191)

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Neuropeptide; Tachykinin; High performance liquid chromatography; Nervous system, insect; Brain; Intestine (Muren, J.E. (739) 314)

Radioligand binding
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Ramified microglia
Transplantation Immunology; Glial cell line derived neurotrophic factor; Brain derived neurotrophic factor; Neurotrophin-3; Reactive microglia (Shinoda, M. (722) 153)

Raphe
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Raphe nucleus
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Brain-derived neurotrophic factor; Norepinephrine; Dopamine; Serotonin; Periaqueductal gray; Hippocampus; Cortex; Nucleus accumbens; Hypothalamus; Substantia nigra (Siuciak, J.A. (710) 11)

Periaqueductal gray; Spinal trigeminal caudal subnucleus; Substance P; Antinociception; Rat (Li, Y.-Q. (719) 219)

Raphe pallidus
Fos; Cold; CRF; Dorsal motor nucleus of the vagus; Gastric erosion; Central amygdala; Nucleus tractus solitarius; Paraventricular nucleus of the hypothalamus (Wang, L. (736) 44)

Raphe transplant
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Rarefaction
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MK-801; Hyperglycemia; Morphine (Meijerink, W.J.H.J. (706) 123)

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Fibroblast growth factor family; Muscle fiber; Immunocytochemistry (Junttila, T. (707) 81)

Nitric oxide synthase; Nitric oxide; Circadian rhythm; Sleep; Central nervous system; Hypothalamus; Protein level (Ayers, N.A. (707) 127)

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Δ^9-Tetrahydrocannabinol; Fos protein; D_1 receptor; SCH-23390 (Miyamoto, A. (710) 234)

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5α-reductase; Immunohistochemistry; Western blot; Brain (Tsuruo, Y. (722) 207)

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Adenylate cyclase; ACTH; cAMP; Cancer; Pituitary gland; Protein kinase C; Receptor desensitization (Dieterich, K.D. (733) 113)

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δ-Opioid receptor; Autoradiography; [^{3}H]DPDPE; [^{3}H]DSLET; Rat brain (Hiller, J.M. (719) 85)

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Reduction potential; Electron affinity; Rat brain microsomes; Superoxide radical; NADPH-cytochrome *P*-450 reductase; Quinone; Nitroheterocycle; Bipyridinium; Brain ageing; Neurodegeneration (Livertoux, M.-H. (725) 207)

5α-Reductase
Androgen; Progestagen; Glial fibrillary acidic protein; Astrocyte; Rat; Central nervous system (Melcangi, R.C. (711) 10)

Brain; Pregnancy; Prenatal development; Neurosteroids; Open-field behavior; Rodent; Finasteride (Proscar) (Lephart, E.D. (739) 356)

Reduction potential
Electron affinity; Rat brain microsomes; Redox cycling of xenobiotics; Superoxide radical; NADPH-cytochrome *P*-450 reductase; Quinone; Nitroheterocycle; Bipyridinium; Brain ageing; Neurodegeneration (Livertoux, M.-H. (725) 207)

Reference memory
Medial septal area; Reversible inactivation; Tetrodotoxin; Lidocaine; Working memory (Rashidy-Pour, A. (709) 131)

Autoimmunity; Cortex; Cortical development; Dyslexia; Enriched environment; Ectopia; Hebb-Williams maze; Lashley maze; Morris maze; Neuronal migration (Boehm, G.W. (726) 11)

Referred pain
Microneurography; Muscle afferent; Muscle pain; Capsaicin (Marchettini, P. (740) 109)

Reflex
Periodontal ligament; Mechanoreceptor; Jaw muscle; Masticatory system; Teeth (Louca, C. (731) 63)

Reflex facilitation
Hyperalgesia; Central sensitization; Wind-up; Arthritis; Pain (Herrero, J.F. (717) 62)

Reflex function
Startle; Sensory system; Traumatic brain injury (Wiley, J.L. (716) 47)

Reflex gain
Human gait; Sural nerve; Exteroceptive reflex; Medial gastrocnemius; Lateral gastrocnemius; Biceps femoris (Duysens, J. (727) 230)

Reflex modulation
Jaw reflex; Nociception; Human (Cadden, S.W. (726) 189)

Reflex-reversal
Group Ib afferent; Locomotion; Human (Stephens, M.J. (743) 24)

Refractory period
Dopamine; Medial forebrain bundle; Reward; Single unit; Ventral striatum (Anderson, R.M. (718) 83)

Regeneration
Growth inhibitory factor; Glial fibrillary acidic protein; Ischemia; Reactive astrocyte; Metallothionein (Inuzuka, T. (709) 151)

Cytokine; Neurite elongation; Neurite branching (Sarder, M. (715) 9)

Protein kinase C; Inhibition; Mouse; Sciatic nerve; Immunohistochemistry (Wiklund, P. (715) 145)

Hair cell; Drug resistance; Aminoglycoside; Ototoxicity; Chicken (Hashino, E. (720) 172)

Evoked potential; Topographical mapping; Hamster (Koster, N.L. (724) 117)

Choline acetyltransferase; Facial nucleus; Motoneuron; Neuron survival; Cell death (Gilad, V.H. (724) 141)

Nerve growth factor; Cholinergic; Blood-brain barrier; Excitotoxicity; Nucleus basalis (Charles, V. (728) 193)

Nerve injury; Mechanoreceptor; Periodontal ligament; Neuropeptide Y; Ruffini ending; Inferior alveolar nerve; Immunoelectron microscopy (Wakisaka, S. (729) 259)

Degeneration; Peripheral nerve; Nerve repair; Transplantation; Rat (Gulati, A.K. (742) 265)

Regenerative failure
Development; Retina; Tissue culture; Neurite outgrowth (Bates, C.A. (714) 65)

Regional cerebral blood flow
Positron emission tomography; Self-paced movement; Somatotopical organization; Human brain (Kawashima, R. (716) 141)

Positron emission tomography; GO/NO-GO; Response selection; Prefrontal cortex (Kawashima, R. (728) 79)

Regional cerebral glucose utilization
Basal ganglia; Levodopa; 2-Deoxyglucose autoradiography (Trugman, J.M. (725) 177)

Regional specificity
Limbic system; Monoclonal antibody; Immunohistochemistry; Western blot; Synapse; Hippocampus (Fukuyama, R. (719) 194)

Registry number 72026-83-6
Fos-like immunoreactivity; Bed nucleus of the stria terminalis; Hypothalamic paraventricular nucleus (Rowland, N.E. (717) 189)

Regulation
$GABA_A$; Steroid; Barbiturate; Pregnanolone; Modulation; Uncoupling; Tolerance (Friedman, L.K. (707) 100)

Interleukin-1β; Immune; Adrenocorticotropin; Cytokine; Hypothalamic-pituitary-adrenal axis; Vagus (Kapcala, L.P. (728) 247)

Regulation of glycolysis
Synaptosome; Energy production; Hexokinase; C6 cell (Erecińska, M. (726) 153)

Regulatory volume decrease
Methylmercury; Astrocyte; Metallothionein; Taurine; Hypotonicity (Vitarella, D. (738) 213)

Rehabilitation
Dentate; Fastigial; Learning (Amrani, K. (740) 275)

Reinforced response
Cholinergic mechanism; Learning; Memory; Microdialysis (Orsetti, M. (724) 89)

Reinforcement
Cocaine; Corticosterone; Metyrapone; Self-administration; Adrenalectomy (Goeders, N.E. (722) 145)

Reinnervation
Olfaction; Olfactory marker protein; Olfactory system; OMP; Age-related; Plasticity; Behavioral recovery (Evers, S.M. (724) 129)

Immediate-early gene; Immunohistochemistry; Ventral striatum; Mesoprefrontal; Mesocortical (Chapman, M.A. (736) 270)

Reinnervation, misdirected
Peripheral nerve regeneration; Polyglycolic acid-collagen tube; Horseradish peroxidase; Somatosensory evoked potential; Electromyogram; Cat sciatic nerve; Intracellular recording from motoneuron (Kiyotani, T. (740) 66)

Release
Dynorphin $A_{(1-8)}$; Peripheral inflammation; Spinal cord; Antibody microprobe (Riley, R.C. (710) 131)

Prostaglandin; Bradykinin; Capsaicin; Nifedipine; ω-Conotoxin; ω-Agatoxin; Voltage-sensitive calcium channel (Evans, A.R. (712) 265)

Glutamate; NMDA receptor; Nitric oxide; Hippocampus; Dentate gyrus; High-performance liquid chromatography; Guinea pig (Nei, K. (728) 105)

$5\text{-}HT_{1A}$ receptor; Glutamate; NMDA receptor; Dentate gyrus; HPLC (Matsuyama, S. (728) 175)

Cholecystokinin; Dopamine; Microdialysis; Frontal cortex; *N*-Methyl-D-aspartate; Scopolamine (Liu, J.K. (735) 30)

Brain-derived neurotrophic factor; Synaptosome; Slice; Superfusion; Veratridine; Cortex; Hippocampus (Androutsellis-Theotokis, A. (743) 40)

REM
Arousal; Light reflectance; Optical imaging; Sleep; Paraventricular hypothalamus; PVH; PVN; Waking; Slow wave; Neuroendocrine (Kristensen, M.P. (727) 107)

Remembered target
Saccade; Dorsomedial frontal cortex; Frontal eye field; Electrical stimulation; Rhesus monkey (Tehovnik, E.J. (727) 221)

Remodeling
Nucleus basalis magnocellularis; Acetylcholine; Rat; Lesion; Ablation; Palmitate; Neuroplasticity; Membrane; Alzheimer disease; Phospholipid; Phosphatidylcholine (De Micheli, E. (735) 36)

REM sleep
Acetylcholine; Brainstem; Stimulation (Thakkar, M. (723) 223)

Graft; Dopamine; Striatum (Drucker-Colín, R. (729) 170)

Paradoxical sleep; Estrus; Ovariectomy; Slow wave sleep; Rat; Sexual dimorphism (Fang, J. (734) 275)

Nicotine; PGO spike (Vazquez, J. (737) 317)

8-OH-DPAT; Ipsapirone; BMY 7378; Spiperone; Electroencephalography; Rhythmic slow activity; Serotonergic neuronal activity; Cat (Marrosu, F. (739) 192)

REM sleep deprivation
Vasoactive intestinal peptide; VIP receptor; Stress; Brainstem; Diencephalon (Jiménez-Anguiano, A. (728) 37)

Renin-angiotensin system
Neurite development; Embryogenesis (Moeller, I. (725) 61)

Reno-renal reflex
Visceral afferent; Spinal cord; Immediate early gene; c-*fos*; Dorsal root ganglion; Albino rat; Kidney (Fitch, G.K. (723) 199)

Reoxygenation
Anoxia; Reperfusion injury; Ischemia; Axon; Electron probe X-ray microanalysis; Peripheral nerve; Elemental composition (Lehning, E.J. (715) 189)

Bovine capillary endothelial cell; 4-Hydroxynonenal; Metabolism; Blood–brain barrier (Kunstmann, S. (740) 353)

Reparative dentin
Calcitonin gene-related peptide; Substance P; Sensory nerve sprouting; Inflammation; Steroid; Pain (Ferrari, A.M. (723) 125)

Reperfusion
Cerebral ischemia; Brain; Oxidative stress; Glutathione; α-Lipoic acid (Panigrahi, M. (717) 184)

Cerebral ischemia; Cerebral blood flow; Adenosine; Pig (Gidday, J.M. (734) 261)

Reperfusion injury
Anoxia; Reoxygenation; Ischemia; Axon; Electron probe X-ray microanalysis; Peripheral nerve; Elemental composition (Lehning, E.J. (715) 189)

Repression
Cyclic adenosine monophosphate-regulated phosphoprotein-21 (ARPP-21); Limbic striatum; Promoter; Gene structure; Transfection (Ivkovic, S. (709) 10)

Reproduction
Ventral striatum; Olfactory tubercle; Gonadotropin; Testosterone; Olfactory pathway (Gomez, D.M. (723) 148)

Reproductive behavior
NADPH diaphorase; Nitric oxide synthase; Estrogen receptor; Ventromedial hypothalamus; Immunocytochemistry; Electron microscopy (Rachman, I.M. (740) 291)

c-*fos*; Sexual stimulation; Estradiol; Progesterone (Pfaus, J.G. (741) 314)

Reptile
Steroid hormone receptors; Ventromedial hypothalamus (Hartman, V. (741) 344)

Reserpine
Satellite glial cell; Potassium current; Patch-clamp; Neuronal activity; Tetrodotoxin (Konishi, T. (708) 7)

Fos; Cerebral cortex; Dopamine; D1/D2 synergism; Cortical layer; Basal ganglia; Immediate-early gene (LaHoste, G.J. (728) 97)

Resiniferatoxin
Messenger plasticity; Axotomy; Chronic constriction injury rat; Vanilloid receptor (Farkas-Szallasi, T. (719) 213)

Respiration
Bötzinger neuron; Intracellular recording; Neurobiotin; Immunohistochemistry; Thyrotropin releasing hormone (Sun, Q.-J. (715) 136)

Blood pressure; Sympathetic; Phrenic; MK-801; Hypoxia (Miyawaki, T. (726) 64)

Vestibular reflex; Posture; Larynx; Pharynx; Tongue (Siniaia, M.S. (736) 160)

Respiratory alkalosis
CO_2 partial pressure; Extracellular pH; Intracellular pH; Neural excitability (Lee, J. (706) 210)

Respiratory neuron
Excitatory amino acid; Glycine; GABA; Strychnine; Bicuculline; Cat (Schmid, K. (710) 150)

Axonal regeneration; Peripheral nerve graft; Electrophysiology; Nerve grafting; Rat; Schwann cell; Spinal cord; Wallerian degeneration (Decherchi, P. (726) 181)

Respiratory quotient
Neuropeptide Y; Paraventricular nucleus; Perifornical hypothalamus; Metabolism; Indirect calorimetry; Food intake (Currie, P.J. (737) 238)

Response dynamic
Otolith; Medial medullary reticular neuron; Off-vertical axis rotation; Bidirectional response sensitivity; Spatial property; Cat (Chan, Y.S. (732) 159)

Response-reinforcement
Excitotoxin; Core; Shell; Subregion; Re_{50}; R_{max}; Motor activity (Johnson, P.I. (722) 109)

Response selection
Regional cerebral blood flow; Positron emission tomography; GO/NO-GO; Prefrontal cortex (Kawashima, R. (728) 79)

Restoration of function
Synaptic plasticity; Motor cortex; Motor learning; Layer V; Stereology; Forelimb behavior (Jones, T.A. (733) 142)

Restraint
Feeding; Drinking; Stress; Sensitization; Hypothalamic–pituitary–adrenal axis; Corticosterone; Adrenal hormone; Glucocorticoid; Rat (Badiani, A. (710) 35)

Oxotremorine; Locomotor activity; Acetylcholine; Muscarinic receptor; Prefrontal cortex; DBA/2 mice (Pullia, D. (743) 333)

Reticular formation
Benzodiazepine; Back muscle; Progesterone; Lordosis; Midbrain central gray (MCG); Periaqueductal gray (PAG); Muscle relaxant (Schwartz-Giblin, S. (710) 178)

Absence epilepsy; Seizure; Thalamus; Thalamocortical; Sleep (Szymusiak, R. (713) 253)

Subnucleus reticularis dorsalis; Subnucleus reticularis ventralis; Nociception; Medulla oblongata; Cat (Fujino, Y. (715) 225)

Tooth pulp; Nociceptive neuron; Subnucleus caudalis; Medulla oblongata; Cat (Yokota, T. (715) 230)

Tectum; Visual input; Locomotion; Lamprey (Zompa, I.C. (718) 221)

Labyrinth; Cardiovascular; Blood pressure; Sympathetic nervous system (Steinbacher Jr., B.C. (720) 204)

Calcium binding protein; Calretinin; Double immunohistochemical labeling; Hybridization histochemistry, in situ; Glutamate receptor (Winsky, L. (741) 123)

Reticular thalamic nucleus
Extracellular matrix; Lectin binding; Cerebral cortex; Basal forebrain; Red nucleus; Rat (Brückner, G. (720) 84)

Reticulospinal
Functional recovery; Segmental reflex; Secondary loss (Gruner, J.A. (729) 90)

Retina
Circadian regulation; Oscillator; Melatonin; Pineal; Photoreception; *Danio (Brachydanio) rerio*; Organ culture (Cahill, G.M. (708) 177)

Lateral habenular nucleus; Fluorescent retrograde tracer; Selective silver impregnation; Albino rat (Qu, T. (709) 251)

Glutamate; AMPA-selective; Receptor; Immunocytochemistry; Cat (Qin, P. (710) 303)

Culture; Glutamate; Neurotoxicity; *N*-Methyl-D-aspartate; Nitric oxide (NO) (Kashii, S. (711) 93)

Melatonin; Cyclic GMP; Golden hamster; Phosphodiesterase; Guanylate cyclase (Faillace, M.P. (711) 112)

Proliferation; Cell distribution; Rod progenitor; Teleost (Kwan, J.W. (712) 40)

Development; Tissue culture; Neurite outgrowth; Regenerative failure (Bates, C.A. (714) 65)

RCS rat; Behavior; Photoreceptor; Water maze; Retinal degeneration (DiLoreto Jr., D. (717) 165)

Gap junction; Electrical synapse; Connexin; Vision; Plasticity (McMahon, D.G. (718) 89)

Angiotensin; Calcium current; Cell culture; Retinal ganglion cells; Neuromodulation (Guenther, E. (718) 112)

Calcium; Calcium channel; Immunoblotting; Immunochemistry; Neural pathway (Micci, M.A. (720) 139)

Anterior thalamus; Ganglion cell; Fluorescent tracer (Farid Ahmed, A.K.M. (729) 119)

Excitatory amino acid; Immunogold silver staining; Nitric oxide; Double labeling (Zhang, C. (729) 205)

Pyroglutamyl peptidase I; Asymmetry; Hypothalamus; Light; Darkness; Rat (Sánchez, B. (731) 254)

Circadian rhythm; Disk shedding; Hamster; Retinal pigmented epithelium (Grace, M.S. (735) 93)

Melatonin synthesis; Pineal; Adrenergic; Circadian rhythm; mRNA regulation (Gauer, F. (737) 99)

Monoclonal antibody; Astrocyte; Glial fibrillary acidic protein; Mouse brain; Subtype (Kobayashi, K. (740) 57)

mGluR3; mGluR5; Metabotropic glutamate receptor; Astrocyte (Jeffery, G. (741) 75)

Nitric oxide synthase; NADPH-diaphorase; Ultrastructural localization; Goldfish (Villani, L. (743) 353)

Retina, flat-mounted
Axonal regeneration; Immunohistochemistry; Monoclonal antibody C38; Rat; Retinal ganglion cell (Wakabayashi, T. (725) 121)

Retinal degeneration
Retina; RCS rat; Behavior; Photoreceptor; Water maze (DiLoreto Jr., D. (717) 165)

Retinal ganglion
N-Methyl-D-aspartate; NBQX; Synaptic response; KA/AMPA receptor (Yu, W. (709) 184)

Retinal ganglion cell
Axonal regeneration; Retina, flat-mounted; Immunohistochemistry; Monoclonal antibody C38; Rat (Wakabayashi, T. (725) 121)

Neurite sprouting; Nerve cell culture; HPC-1; Syntaxin; Antisense oligonucleotide; Dorsal root ganglion neuron (Yamaguchi, K. (740) 185)

Axonal regeneration; Astrocyte; Reactive oxygen species; Neurotoxicity (Lucius, R. (743) 56)

Angiotensin; Calcium current; Cell culture; Retina; Neuromodulation (Guenther, E. (718) 112)

Retinal microvasculature
GLUT1; Glucose transporter; Retinopathy; Blood–retinal barrier (Kumagai, A.K. (706) 315)

Retinal pigmented epithelium
Retina; Circadian rhythm; Disk shedding; Hamster (Grace, M.S. (735) 93)

Retinohypothalamic tract
Circadian rhythm; Immediate early gene; Fos; Suprachiasmatic nucleus; Substance P; Spantide; Light (Abe, H. (708) 135)

Adenosine; Suprachiasmatic nucleus; Circadian rhythm; Phase shift; Fos (Watanabe, A. (740) 329)

Suprachiasmatic nucleus; Visual system; Congenic rat; Albino (Miller, A.M. (741) 348)

Retinoic acid
Development; Neural retina; Ganglion cell; Rod photoreceptor; bFGF; Opsin; Tissue culture (Zhao, S. (723) 169)

Retinopathy
GLUT1; Glucose transporter; Blood–retinal barrier; Retinal microvasculature (Kumagai, A.K. (706) 315)

Retrieval
Dorsal hippocampus; Passive avoidance; Acquisition; Consolidation; Tetrodotoxin; Functional inactivation (Ambrogi Lorenzini, C. (730) 32)

Retrograde degeneration
Vasopressin; Oxytocin; Rat brain; Immunocytochemistry (Alonso, G. (711) 34)

Retrograde fluorescent tracer
Fluoro-Green; Fluoro-Red; Double-labeling; Neuroanatomical study (Dong, K. (736) 61)

Retrograde reaction
Spinal cord; α-Motoneuron; Axonal lesion; Ventral root avulsion; Cat (Holmberg, P. (731) 155)

Retrograde tracer
Ca^{2+}/calmodulin-dependent protein kinase IV; Immunohistochemistry; In situ hybridization histochemistry; Bipolar cell (Sakagami, H. (719) 154)

Retrograde tracing
Neuronal nitric oxide synthase; Fluoro-Gold; Immunohistochemistry; Immunoelectron microscopy; Basilar artery (Kadota, O. (706) 129)

Locus coeruleus; Sacral parasympathetic nucleus; Corticotropin-releasing hormone; Biocytin; Anterograde tracing (Valentino, R.J. (732) 1)

Fluorescent microsphere; Brainstem; Periaqueductal grey; Ventral medulla; Rat (Hudson, P.M. (733) 138)

Thalamus; Anterograde tracing; Biocytin; Dextran-tetramethylrhodamine; Teleostei; Gymnotiformes (Zupanc, G.K.H. (739) 201)

Retrograde transport
Atrioventricular conduction; Cardiac rate; Glutamate; Immunocytochemistry; Histochemistry; Nucleus ambiguus; Tachykinin; Vagus nerve (Massari, V.J. (715) 197)

Reverse transcriptase-polymerase chain reaction
Interleukin-6 receptor; Gp 130; c-*fos*; Hybridization, in situ; PC12 cell; Sympathetic neuron; Tumor necrosis factor α; Glucocorticoid; Differentiation (März, P. (706) 71)

Prostanoid receptor; Astrocyte; Oligodendrocyte; Microglia; Messenger RNA expression; Cell differentiation (Kitanaka, J. (707) 282)

Reverse transcription-polymerase chain reaction
Adenylyl cyclase; Ca^{2+}/calmodulin-stimulation; Neuroblastoma cell line; Western blot (Kluxen, F.-W. (740) 169)

Interleukin-6 mRNA; Interleukin-6 receptor mRNA; Superior cervical ganglia; Dorsal root ganglia; In situ hybridization (Gadient, R.A. (724) 41)

Reversible inactivation
Medial septal area; Tetrodotoxin; Lidocaine; Reference memory; Working memory (Rashidy-Pour, A. (709) 131)

Medial septal area; Long-term potentiation; Recurrent inhibition; Hippocampus; Tetrodotoxin (Rashidy-Pour, A. (734) 43)

Reward
Conditioned place preference; Ventral pallidum; Locomotor activity; Cocaine; Amphetamine; Dopamine; Procaine; Nucleus accumbens (Gong, W. (707) 64)

Dopamine; Medial forebrain bundle; Refractory period; Single unit; Ventral striatum (Anderson, R.M. (718) 83)

Ventral tegmental area; Opioid; Sexual behavior; Motivation; Anticipatory behavior (Van Furth, W.R. (729) 20)

Morphine; Opioid; U50,488H; Fos; Brain; Guinea-pig (Bot, G. (731) 45)

Reward reduction
Amygdala; Central nucleus; Basolateral nucleus; Ibotenic acid; Behavioral contrast; Frustration effect; Crespi effect (Salinas, J.A. (742) 283)

Rhesus monkey
Saccade; Remembered target; Dorsomedial frontal cortex; Frontal eye field; Electrical stimulation (Tehovnik, E.J. (727) 221)

Rhythmic bladder contraction
Cyclic AMP; Adenosine A_1; Adrenaline α_2; Dopamine D_2; Pertussis toxin; G protein; Rat (Oka, M. (727) 91)

Rhythmic slow activity
8-OH-DPAT; Ipsapirone; BMY 7378; Spiperone; Electroencephalography; Serotonergic neuronal activity; REM sleep; Cat (Marrosu, F. (739) 192)

Right atrium
NADPH diaphorase; Acetylcholinesterase; Intracardiac plexus; Human; Monkey; Dog (Yoshida, K. (724) 256)

Right temporal lobe
Neuronal activity; Cortex; Visuospatial memory (Holmes, M.D. (711) 44)

Ritalin
Methylphenidate; Dose response; Psychomotor stimulant; Motor activity; Behavior (Gaytan, O. (727) 13)

***hsp*70 mRNA**
CuZn-superoxide dismutase; Heat shock protein; Hippocampal CA1 neuron; Oxygen-free radical; Transgenic mouse; Transient global cerebral ischemia (Kondo, T. (737) 321)

mRNA
Neuropeptide Y; Arcuate nucleus; Gold thioglucose; Ventromedial nucleus; Food deprivation (Bergen, H.T. (707) 266)

Preprotachykinin; Nerve growth factor receptor; Dorsal root ganglia; Peripheral inflammation; Pain; In situ hybridization (Cho, H.-J. (716) 197)

Differentiation; Aldosterone; Ru28362; Hybridization, in situ; Tissue culture (Nishi, M. (722) 190)

Fibronectin; Alternative splicing; Brain; Aging; Rat; Food restriction (Dorner, H. (726) 198)

N-Methyl-D-aspartate; Amyotrophic lateral sclerosis; Glutamate receptor (Samarasinghe, S. (727) 233)

bFGF; Tenascin; Laminin; Hemitransection; Rat brain; Hybridization, in situ (Lippoldt, A. (730) 1)

Preproenkephalin; Opioid; Nitrous oxide; Hypothalamus; Met-enkephalin (Agarwal, R.K. (730) 47)

Insulin; Brain; Spinal cord; Dorsal root ganglia; Polymerase chain reaction; In solution hybridization; Electron microscopy (Schechter, R. (736) 16)

Huntingtin; 3′ Untranslated region; Tissue distribution; Brain; Mouse (Casanova, E. (743) 320)

mRNA regulation
Melatonin synthesis; Pineal; Retina; Adrenergic; Circadian rhythm (Gauer, F. (737) 99)

Ro 15-1788
Anxiety; Benzodiazepine; Lateral septum; Medial septum; Midazolam (Pesold, C. (710) 161)

Ro 5-4864
Peripheral-type benzodiazepine receptor; EL mouse; Epilepsy; Mitochondria; Flunitrazepam; Pentylenetetrazole (Nakamoto, Y. (717) 91)

RO19-4603
Flumazenil; ZK 93426; CGS 8216; Alcohol-preferring (P) rat; $GABA_A$–BDZ; Benzodiazepine inverse agonist (June, H.L. (734) 19)

Rod
Rat; In situ hybridization; Photoreceptor; Inner segment; Development; Dark-rearing (Hoover, F. (718) 124)

Rodent
5α-Reductase; Brain; Pregnancy; Prenatal development; Neurosteroids; Open-field behavior; Finasteride (Proscar) (Lephart, E.D. (739) 356)

Rod pathway
Rabbit retina; APB; AII; Scotopic; Narrow-field bistratified amacrine (Jin, X.T. (708) 191)

Rod photoreceptor
Development; Neural retina; Ganglion cell; bFGF; Retinoic acid; Opsin; Tissue culture (Zhao, S. (723) 169)

Rod progenitor
Retina; Proliferation; Cell distribution; Teleost (Kwan, J.W. (712) 40)

R(+)-8-OH-DPAT
D-Amphetamine; Serotonin; Dopamine; 5-HT_{1A} receptor; Prefrontal cortex; Anxiety; Microdialysis; Rat (Kuroki, T. (743) 357)

Rolling mouse Nagoya
Neurological mutant mouse; Basal ganglia; Preproenkephalin mRNA; Preprotachykinin mRNA; Dopamine D_2 receptor binding assay (Taniwaki, T. (714) 231)

Rostral ventrolateral medulla
Ventromedial hypothalamic nucleus; Multiunit activity; Blood pressure; Heart rate; Rat (Hirasawa, M. (724) 186)

Alcohol; Chemoreflex; Excitatory amino acid; Vasomotor neuron; Rat (Sun, M.-K. (730) 182)

Glutamate; Glycine; Parasympathetic/sympathetic interaction; Single unit activity (McKitrick, D.J. (742) 203)

Rostral ventromedial medulla
Hyperalgesia; Mustard oil; Neurotensin; Cholecystokinin; Descending pain facilitation (Urban, M.O. (737) 83)

Rostro-ventrolateral medulla
γ-Aminobutyric acid; Brainstem slice; Intracellular recording; Cardiovascular regulation; Baroreflex; Pacemaker neuron (Hayar, A. (709) 173)

Rotarod test
Pain; Calmodulin inhibitor; Spinal analgesia; Central hyperalgesia; Formalin test; Tail flick test; Rat (Menendez, L. (731) 114)

Rota-Rod treadmill
Cerebral palsy; Sensorimotor; Perinatal neural injury; Rat; Brain hypertrophy; Contralateral hemisphere hypertrophy (Jansen, E.M. (708) 93)

Rotation
MK-801; Dopamine; A-85653; Quinpirole; Fos; Sensitization; Tolerance (Asin, K.E. (725) 67)

6-Hydroxydopamine; Levodopa; Motor fluctuation; MK801 (Marin, C. (736) 202)

Rotational behavior
Striatum; Substantia nigra; High-affinity dopamine uptake; Mazindol binding; Parkinson's disease (Jones, B.E. (709) 275)

Methylmalonic acid; Organic acidemia; Neurotoxicity; Open field; Convulsion; Seizure; Striatum; Excitotoxicity (De Mello, C.F. (721) 120)

Environment; Associative learning; Stress; Rat (Crombag, H.S. (722) 227)

RT-PCR
Steroid receptor; Neuronal differentiation (Beaman-Hall, C.M. (726) 141)

RU 486
Astrocyte, Type 1; Monoamine oxidase expression; Monoamine oxidase (MAO) A mRNA; Monoamine oxidase (MAO) B mRNA; Dexamethasone; Deprenyl; Actinomycin D; Cycloheximide (Carlo, P. (711) 175)

RU 34347
Benzodiazepine receptor; Inverse agonist; Rat; Cerebellum; γ-Aminobutyric acid; Flumazenil (Pringle, A.K. (715) 155)

Ru28362
Differentiation; Aldosterone; Hybridization, in situ; mRNA; Tissue culture (Nishi, M. (722) 190)

RU38486
Cerebral ischemia; Hypoxia; Neuroprotection; Dexamethasone; Glucocorticoid; Corticosterone; Infant (Tuor, U.I. (743) 258)

Rubrospinal
Astrocyte; Glial fibrillary acidic protein; Axotomy; Red nucleus; Glia (Tseng, G.-F. (742) 115)

Ruffini ending
Nerve injury; Inferior alveolar nerve; Neuropeptide Y; Periodontal ligament; Mechanoreceptor; Rat (Wakisaka, S. (712) 11)

Nerve injury; Mechanoreceptor; Periodontal ligament; Neuropeptide Y; Regeneration; Inferior alveolar nerve; Immunoelectron microscopy (Wakisaka, S. (729) 259)

Ruffle
Nerve growth factor; PC12D cell; Neurite; Growth cone (Sano, M. (730) 212)

S

Saccade
Remembered target; Dorsomedial frontal cortex; Frontal eye field; Electrical stimulation; Rhesus monkey (Tehovnik, E.J. (727) 221)

Saccharin preference
Lipopolysaccharide; Depression; Sexual behavior; Anorexia; Body weight; Social exploration; Open-field test; Tricyclic antidepressant; Imipramine (Yirmiya, R. (711) 163)

Sacral parasympathetic nucleus
Locus coeruleus; Corticotropin-releasing hormone; Biocytin; Retrograde tracing; Anterograde tracing (Valentino, R.J. (732) 1)

Saimiri sciureus
Calcium-binding protein; Basal ganglia; Immunohistochemistry; Squirrel monkey; Neurodegenerative disease (Fortin, M. (708) 201)

Saline
Circadian rhythm; Non-photic entrainment; Vitamin B_{12}; Daily injection; Mouse (Ebihara, S. (727) 31)

Salmon
Monoamine; Serotonin; Dopamine; Norepinephrine; Development (Ebbesson, S.O.E. (742) 339)

S-antigen
Hydroxyindole-*O*-methyltransferase; Melatonin; Y-79 retinoblastoma; Serum (Bernard, M. (727) 118)

192-Saporin
Immunotoxin; Medial septum; Spatial memory; Alzheimer's disease; Animal model; Cholinergic basal forebrain (Walsh, T.J. (726) 69)

Medial septum/diagonal band complex; Conditioned taste aversion; Latent inhibition; Attention (Dougherty, K.D. (736) 260)

Saporin
Immunotoxin; Noradrenaline; Locus coeruleus; Lesion; Rat (Wrenn, C.C. (740) 175)

Satellite cell
cGMP; Dorsal root ganglia; Sensory neuron; Soluble guanylyl cyclase (Kummer, W. (721) 191)

Satellite glial cell
Potassium current; Patch-clamp; Neuronal activity; Tetrodotoxin; Reserpine (Konishi, T. (708) 7)

Satiety
Food ingestion; Water intake; Glucose; Insulin; Hindbrain (Menani, J.V. (740) 102)

Macaque; Monkey; Taste; Amygdala; Flavor (Yan, J. (740) 193)

Saxitoxin-analog C3
Anemone toxin II; Voltage-dependent sodium channel (Castillo, C. (733) 231)

SB209670
Spinal cord injury; Endothelin-1; Astrocyte; Monoclonal antibody RC1 (Uesugi, M. (728) 255)

S-100β
Neuro-glia interaction; Mutant mouse; Serotonin; 5-HT_{1A}; Transplantation; Immunocytochemistry (Ueda, S. (738) 15)

SC1
Astrocyte; Glia; SPARC; Reactive astrocytosis; Extracellular matrix (McKinnon, P.J. (709) 27)

Scarpa's ganglion
Vestibular; Efferent; Hybridization, in situ; Hair cell; Nicotinic acetylcholine receptor (Hiel, H. (738) 347)

SCH 39166
8-OH-DPAT; Microdialysis; WAY 100635; SCH 23390; Ventral tegmental area (Consolo, S. (707) 320)

SCH-23390
8-OH-DPAT; Microdialysis; WAY 100635; SCH 39166; Ventral tegmental area (Consolo, S. (707) 320)

Δ^9-Tetrahydrocannabinol; Fos protein; D_1 receptor; Rat (Miyamoto, A. (710) 234)

SCH 23390
Voltammetry; Mesocorticolimbic dopamine; Infralimbic cortex; SKF 38393; Sulpiride; Quinpirole; GBR 12909 (Doherty, M.D. (715) 86)

SCH-23390
Alcohol; SKF-38393; Paired-pulse responses; Lateral septal nucleus; Dentate gyrus (Criado, J.R. (716) 192)

SCH 23390
Corticosteroid receptor; C57BL/6; DBA/2; Hippocampus; LY 171555; Passive avoidance; SKF 38393; (−)-Sulpiride (Cabib, S. (729) 110)

CTA; D1; D2; Sulpiride; Visceral distress; Taste; Rat (Caulliez, R. (729) 234)

Cocaine; Conditioned locomotion; (−)-sulpiride; MK-801; DNQX; Rat (Cervo, L. (731) 31)

Schizophrenia
Serotonin-5-HT_{1A} receptor; [^{3}H]8-OH-DPAT; Up-regulation; Prefrontal cortex; Postmortem brain (Sumiyoshi, T. (708) 209)

Nucleus accumbens; Sensorimotor gating; Prepulse inhibition; Startle (Wan, F.-J. (722) 168)

Methamphetamine; Dopamine; Glutamate; AMPA; Stereotypy (Larson, J. (738) 353)

Protein phosphatase; τ Protein; Dephosphorylation; Neurofibrillary tangle; Alzheimer's disease (Gong, C.-X. (741) 95)

Schwann
Peripheral nerve; Leupeptin; Aprotinin; APP; Serpin; Deposit; Anchoring junction; Desmosome; Alzheimer (Moreno, R.D. (718) 13)

Schwann cell
Axonal regeneration; Respiratory neuron; Peripheral nerve graft; Electrophysiology; Nerve grafting; Rat; Spinal cord; Wallerian degeneration (Decherchi, P. (726) 181)

Sciatic nerve
Axon regeneration; Axonal transport; Cytoskeleton; Axotomy; β-Tubulin; Sensory neuron; Dorsal root (Hoffman, P.N. (708) 182)

Protein kinase C; Inhibition; Mouse; Immunohistochemistry; Regeneration (Wiklund, P. (715) 145)

Axon excitability; Activity dependence; Conduction latency; Low-threshold mechanoreceptors; Electrical stimulation; Rat (Waikar, S.S. (721) 91)

Sciatic nerve cut
Motoneuronal death; NADPH-diaphorase (He, B.P. (733) 125)

Scopolamine
Alzheimer's disease; Acetylcholine; Arecoline; Atropine; Consolidation; Development; Memory; Passive-avoidance response; Pilocarpine (Smith, R.D. (707) 13)

Delayed Matching to Position; Prefrontal cortex; Cholinergic system; Working memory; Selective attention; Rat (Herremans, A.H.J. (711) 102)

Isolation rearing; Learning; Morris water maze; Rat (Wongwitdecha, N. (715) 119)

Memory; Radial-arm maze; Hippocampus; Nucleus accumbens; Nicotinic; Muscarinic; Mecamylaine (Kim, J.S. (725) 231)

MK801; CGS19755; YM90K; 8-Arm radial maze; Spatial cognitive deficit; Augmentation (Li, H.-B. (725) 268)

Cholecystokinin; Dopamine; Microdialysis; Frontal cortex; *N*-Methyl-D-aspartate; Release (Liu, J.K. (735) 30)

Hippocampus; Working memory; 5-HT_{1A} receptor; NAN-190; Acetylcholine; NMDA receptor; (±)-3-(2-Carboxypiperazin-4-yl)propyl-1-phosphonic acid (Ohno, M. (736) 180)

Traumatic brain injury; Fluid percussion; Phosphatidylinositol bisphosphate; Diacylglycerol; Free fatty acid; Arachidonic acid; Muscarinic; Rat (Lyeth, B.G. (742) 63)

Scopolamine-induced amnesia
Interleukin-1; Passive avoidance; Recombinant granulocyte-macrophage colony-stimulating factor (Bianchi, M. (729) 285)

Scotopic
Rabbit retina; Rod pathway; APB; AII; Narrow-field bistratified amacrine (Jin, X.T. (708) 191)

Scratch reflex
Morphine; NK-1 receptor antagonist; Spinal cord; Intrathecal injection (Sakurada, T. (724) 213)

Scrotal thermal stimulation
Ventromedial hypothalamic neuron; Lidocaine; Medial preoptic nucleus blockade (Li, Q. (716) 134)

Seasonal
Androgen; Neural plasticity; Songbird (Smith, G.T. (734) 79)

Secondary loss
Functional recovery; Reticulospinal; Segmental reflex (Gruner, J.A. (729) 90)

Second harmonics
Lateral geniculate nucleus; Receptive field; Linear/non-linear contrast integration; Shift effect; Visual system (Funke, K. (742) 50)

Second somatosensory cortex
Basal ganglia; Striatum; Corticospinal cell; Motor cortex; Corticothalamic cell (Lévesque, M. (709) 311)

Section culture
Nerve growth factor; Sprouting; Sympathetic; Hippocampus; Septal lesion; Basal forebrain; Rat (Tian, X. (725) 111)

Sedation
Allodynia; α_2-Adrenoceptor agonist; Central pain; Clonidine; Intrathecal; Neuropathic pain; Spinal cord (Hao, J.-X. (736) 28)

Sedative action
Neuropeptide Y; Arousal; Corticotropin-releasing hormone; Sodium pentobarbital; Psychological stress; Locomotor activity (Yamada, K. (725) 272)

Segmental reflex
Cutaneous afferent; Spinal convergence; Size principle; Pain; Voluntary command; Human locomotion (Rossi, A. (714) 76)

Functional recovery; Reticulospinal; Secondary loss (Gruner, J.A. (729) 90)

Seizure
Purine; Glutamate (Glass, M. (710) 56)

Electroshock; Gene expression; Hybridization, in situ; Glutamate; Messenger RNA (Porter, R.H.P. (710) 97)

Monkey; Primary motor cortex; Precentral cortex; Corticospinal tract; Immunocytochemistry; Calcium-binding proteins; Epilepsy (Preuss, T.M. (712) 353)

Absence epilepsy; Reticular formation; Thalamus; Thalamocortical; Sleep (Szymusiak, R. (713) 253)

Glial fibrillary acidic protein; Vimentin; Immunohistochemistry; Dentate gyrus; Hilus (Stringer, J.L. (717) 147)

Burst; Spike train; Tissue (Colder, B.W. (719) 96)

Methylmalonic acid; Organic acidemia; Neurotoxicity; Open field; Convulsion; Striatum; Excitotoxicity; Rotational behavior (De Mello, C.F. (721) 120)

Electroconvulsive shock; Rat; Epilepsy; Animal model; Inbred rat strain; Spontaneously hypertensive rat (Francis, A. (721) 150)

Epilepsy; Potassium channel; Oocyte; *Xenopus laevis*; Pentylenetetrazol (Madeja, M. (722) 59)

Long-term potentiation; Long-term depression; Hippocampus; Synaptic plasticity (Abraham, W.C. (722) 217)

Serotonin; Substantia nigra; Deep piriform cortex; Bicuculline; γ-Aminobutyric acid (Pasini, A. (724) 84)

Audiogenic rat; Kindling; [^{14}C]2-Deoxyglucose; Cerebral glucose utilization; Interictal metabolic level (Nehlig, A. (724) 97)

Pilocarpine; Status epilepticus; Cell death; Time course; *N*-Methyl-D-aspartate receptor; Glutamate (Fujikawa, D.G. (725) 11)

Calpain; Spectrin; Glutamate; Hippocampus; Neuropathology (Bi, X. (726) 98)

Epilepsy; Absence; Petit mal; γ-Aminobutyric acid; Electroencephalography; Pharmacological antagonist; Rat (Smith, K.A. (729) 147)

Nitric oxide synthase; Forebrain; Epilepsy; Chick; Hereditary; Photic stimulation (Sandirasegarane, L. (735) 311)

Hippocampus; Automatism; Locomotion; Dopamine; γ-Aminobutyric acid (Ma, J. (739) 26)

Cocaine; Lidocaine; Local anesthetics; Drug interaction (Barat, S.A. (742) 157)

3-Aminopropylarsonate; 2-Amino-4-arsonobutyrate; Epileptogenesis; Electrical kindling; *N*-Methyl-D-aspartate; γ-Aminobutyric acid; Kainate; Amygdala (Abdul-Ghani, A.-S. (742) 305)

Corticotropin-releasing factor; Fos; Hypothalamus; Amygdala; Stria terminalis (Piekut, D. (743) 63)

Kindling; Amygdala; Thalamus; Fatty acid; Palmitate; Lipid; Deoxyglucose; Brain; Plasticity; Phospholipid; Phosphatidylcholine; Activation (Arai, T. (743) 131)

Seizure-like events
Subiculum; Late recurrent discharge; Low magnesium; Membrane-potential change; Field potential; 5-HT (Behr, J. (737) 331)

Seizure suppression
Kindling; Kindling antagonism; Amygdala; Piriform cortex; Perirhinal cortex; Insular cortex (Mohapel, P. (733) 211)

Selection line
Stress; HPA axis; Dopamine system; Corticosteroid receptor; Free corticosterone (Rots, N.Y. (710) 189)

Selective attention
Delayed Matching to Position; Prefrontal cortex; Cholinergic system; Scopolamine; Working memory; Rat (Herremans, A.H.J. (711) 102)

Selective breeding
Locus coeruleus; Swim test; Animal model of depression; Norepinephrine; Dopamine (Scott, P.A. (725) 217)

Selective silver impregnation
Retina; Lateral habenular nucleus; Fluorescent retrograde tracer; Albino rat (Qu, T. (709) 251)

Selective vulnerability
NADH; Hippocampal slice; Oxidative phosphorylation; Chemical inhibition; Uncoupling; CA1; CA3 (Riepe, M.W. (710) 21)

Cloning; Northern blot; Human brain; Energy metabolism; Alzheimer's disease (Fukuyama, R. (713) 290)

Selectivity
Muscarinic antagonist; Intact cerebellar granule cell; Intrinsic activity (Saunders, P.A. (713) 29)

Self-administration
Cocaine; Heroin; Initiation phase; Motivational aspects; Nucleus accumbens; Dopamine; 6-Hydroxydopamine (Gerrits, M.A.F.M. (713) 114)

Cocaine; Reinforcement; Corticosterone; Metyrapone; Adrenalectomy (Goeders, N.E. (722) 145)

Self-paced movement
Regional cerebral blood flow; Positron emission tomography; Somatotopical organization; Human brain (Kawashima, R. (716) 141)

Self-stimulation
Corticosterone; Food restriction; Sensitization; Aminoglutethimide; Metyrapone (Abrahamsen, G.C. (726) 39)

Senile plaque
Neurodegeneration; Microglia; Dementia; Lipoprotein associated coagulation inhibitor; Proteinase inhibitor (Hollister, R.D. (728) 13)

Dystrophic neurite; Paired helical filament; Neurofilament; Hyper-phosphorylation; Neuropathology; Alzheimer's disease (Su, J.H. (739) 79)

Senktide
Tachykinin; NK-3 receptor; Antidiuretic action; Paraventricular nucleus; Vasopressin V2 receptor (Eguchi, T. (743) 49)

Sensation
Muscle spindle; Kinaesthesia; Proprioception; Intrafusal; Elbow joint; Contraction; Stretch; Afferent (Wise, A.K. (735) 125)

Sensitization
Transplant; Dopamine; Neonate; Conditioning; Priming (Abrous, D.N. (708) 21)

Feeding; Drinking; Restraint; Stress; Hypothalamic–pituitary–adrenal axis; Corticosterone; Adrenal hormone; Glucocorticoid; Rat (Badiani, A. (710) 35)

Nucleus accumbens; NMDA receptor/glycine site; Cocaine; Locomotor activity (Khan, M.A. (719) 198)

MK-801; Dopamine; A-85653; Quinpirole; Fos; Rotation; Tolerance (Asin, K.E. (725) 67)

Self-stimulation; Corticosterone; Food restriction; Aminoglutethimide; Metyrapone (Abrahamsen, G.C. (726) 39)

Dose–response relationship; Priming; Apomorphine (Gancher, S. (729) 190)

Cocaethylene; Cocaine; Locomotor activity; Drug bioavailability (Horger, B.A. (733) 133)

Quisqualate; Glutamate; Hydroxamate; Hippocampus; Excitatory amino acid (Roon, R.J. (734) 223)

Sensorimotor
N-Methyl-D-aspartate antagonist; Dizocilipine maleate; MK-801; Cingulate cortex; Neurotoxicity; Neuropathology; Spatial learning and memory; Activity; Mouse (Wozniak, D.F. (707) 165)

Rota-Rod treadmill; Cerebral palsy; Perinatal neural injury; Rat; Brain hypertrophy; Contralateral hemisphere hypertrophy (Jansen, E.M. (708) 93)

Sensorimotor cortex
Dendritic branching; Dendritic spine; Use-dependent neural growth; Astrocyte; Microglia; Glial fibrillary acidic protein; Postural asymmetry (Forgie, M.L. (710) 249)

c-*fos*; Cervical interneuron; Corticospinal tract; Kainate; Rat (Curfs, M.H.J.M. (725) 88)

Cat; Bursting; Intracellular staining; Afterdepolarization (Nishimura, Y. (727) 212)

Burst firing; Pyramidal neuron (Guatteo, E. (741) 1)

Sensorimotor gating
Nucleus accumbens; Prepulse inhibition; Startle; Schizophrenia (Wan, F.-J. (722) 168)

Sensorimotor learning
Cerebellum; Spatial orientation; Motor coordination; Visual discrimination learning; Fastigial nucleus (Joyal, C.C. (739) 1)

Sensory
Aging; Transplantation; Sympathetic; Cerebral blood vessel; Extracellular matrix; Autonomic (Gavazzi, I. (734) 167)

Sensory deprivation
Glutamate receptor; Synaptic transmission; Neural plasticity; Visual cortex; Nerve block (Yoshimura, H. (733) 108)

Sensory inference
Neural model; Auditory sensory memory; Passive attention; Event-related potential (ERP); Mismatch negativity (MMN) (Winkler, I. (742) 239)

Sensory nerve sprouting
Calcitonin gene-related peptide; Substance P; Reparative dentin; Inflammation; Steroid; Pain (Ferrari, A.M. (723) 125)

Sensory neuron
Axon regeneration; Axonal transport; Cytoskeleton; Axotomy; β-Tubulin; Dorsal root; Sciatic nerve (Hoffman, P.N. (708) 182)

Motor neuron; Cholinergic neuron; Cognition (Moeller, I. (712) 307)

CGRP; Nerve injury; Plasticity; Somatostatin (Ji, R.-R. (721) 167)

cGMP; Dorsal root ganglia; Satellite cell; Soluble guanylyl cyclase (Kummer, W. (721) 191)

Sensory system
Startle; Reflex function; Traumatic brain injury (Wiley, J.L. (716) 47)

Septal cell culture
Transforming growth factor α; Cholinergic neuron; GABAergic neuron; Epidermal growth factor; Glia; Neurotrophic factor (Mazzoni, I.E. (707) 88)

Septal-hippocampal pathway
Adrenergic receptor; Hypothalamus; Tyrosine; Cognitive function; Mouse; Eight-arm maze; Diet restriction; Anorexia nervosa (Avraham, Y. (732) 133)

Septal lesion
Nerve growth factor; Sprouting; Sympathetic; Hippocampus; Section culture; Basal forebrain; Rat (Tian, X. (725) 111)

Acetylcholine; Nicotine; Pyramidal cell; Hippocampus; Cytisine; α-Bungarotoxin (Frazier, C.J. (727) 217)

Septal neuron
$GABA_A$ receptor; Lanthanide; Cultured neuron; Voltage clamp (Kumamoto, E. (723) 235)

Septohippocampal
Intracellular-free calcium; Neurotrophin; Indo-1; Ethanol neurotoxicity; Nerve growth factor (Webb, B. (729) 176)

Septohippocampal cholinergic system
Acetylcholine; Behavioral inhibition; Dentate gyrus; Freezing; Hippocampus; Presynaptic muscarinic receptor; Oxotremorine; Preweanling rat; Ultrasonic vocalization (Takahashi, L.K. (731) 230)

Septum
Hemicholinium-3 binding; Choline acetyltransferase; Muscarinic receptor; Tyrosine hydroxylase; Hippocampus; Developmental lead-exposure; Fimbria-fornix transection; Superior cervical ganglionectomy (Bielarczyk, H. (708) 108)

Median raphe nucleus; Hippocampus; Theta rhythm; 8-Hydroxy-2-(di-*n*-propylamino)tetralin (8-OH-DPAT); Serotonin (Kinney, G.G. (708) 116)

Hibernation; Opioid; Dynorphin A; β-Endorphin (Cui, Y. (710) 271)

Vasopressin; Oxytocin; Antiserum; Hippocampus; Social recognition
(Van Wimersma Greidanus, Tj.B. (713) 153)

Choline acetyltransferase; Diagonal band of Broca; Nucleus basalis; Striatum; Alzheimer's disease (Gibbs, R.B. (720) 61)

Ethanol; Physical dependence; $GABA_A$ receptor; Desensitization; Lanthanum; Zinc; Dissociated neuron (Frye, G.D. (720) 101)

Serotonin; Interneuron; Dentate gyrus; Tenia tecta; Amygdala (Morales, M. (731) 199)

Axonal sprouting; Entorhinal cortex; Hippocampus; Mutant mouse; Neuromorphological plasticity (Shi, B. (740) 89)

SERCA
Calcium; Calcium ion transport ATPase; Calcium pump; Brain; Purkinje neuron (Baba-Aissa, F. (743) 141)

Serine protease
Epilepsy; Kindling; Neuropsin gene; Plasticity; Limbic system; Cerebral cortex (Okabe, A. (728) 116)

Serotonergic
Penile erection; Somatostatin; Cysteamine; Cholinergic; Dopaminergic (Matsuoka, N. (729) 132)

Serotonergic mechanism
α-Methyl tryptophan; Serotonin; In vivo enzyme activity; Serotonin synthesis (Ljubić-Thibal, V. (724) 222)

Serotonergic neuron
Aromatic L-amino acid decarboxylase; L-Dopa; Dopamine; Raphe nucleus; Striatum; Cerebral cortex; Parkinson's disease (Arai, R. (706) 177)

Serotonergic neuronal activity
8-OH-DPAT; Ipsapirone; BMY 7378; Spiperone; Electroencephalography; Rhythmic slow activity; REM sleep; Cat (Marrosu, F. (739) 192)

Serotonin
Median raphe nucleus; Hippocampus; Theta rhythm; Septum; 8-Hydroxy-2-(di-*n*-propylamino)tetralin (8-OH-DPAT) (Kinney, G.G. (708) 116)

Circadian rhythm; Arousal; Entrainment; Hamster; Activity; Non-photic (Sumova, A. (709) 88)

Brain-derived neurotrophic factor; Neurotrophic factor; Platelet; Serum; Brain; ELISA immunoassay (Radka, S.F. (709) 122)

Brain-derived neurotrophic factor; Norepinephrine; Dopamine; Raphe nucleus; Periaqueductal gray; Hippocampus; Cortex; Nucleus accumbens; Hypothalamus; Substantia nigra (Siuciak, J.A. (710) 11)

Brain-derived neurotrophic factor; BDNF; Growth factor; Firing pattern (Celada, P. (712) 293)

Dog; Cerebrospinal fluid; 5-HIAA; Aggression; Dominance (Reisner, I.R. (714) 57)

Blood pressure; Central nervous system; Anteroventral third ventricle (AV3V) lesion (Muntzel, M.S. (714) 104)

Dorsal raphe nucleus; Single unit activity; Cat; Motor activity; Feeding; Grooming; Central pattern generator (Fornal, C.A. (716) 123)

Ethanol; Glutamate; Microdialysis; Prefrontal-cortex; Nucleus accumbens (Selim, M. (716) 157)

Long-term potentiation; Serotonin $5\text{-}HT_{1B}$ receptor; Subiculum; Glutamatergic transmission (Boeijinga, P.H. (721) 59)

$5\text{-}HT_{1B}$ receptor; $5\text{-}HT_{1D\beta}$ receptor; Serotonin transporter; Serotonin receptor; 5,7-Dihydroxytryptamine; Citalopram; Dorsal raphe; Autoreceptor (Neumaier, J.F. (722) 50)

Acetylcholine; Analgesia; Atropine; Intrathecal; Methysergide; Naloxone; Noradrenaline; Spinal cord; Yohimbine (Fang, F. (722) 95)

Alcohol; Frontal lobe; Prefrontal cortex; Frontal cortex brain lesion; Dopamine; Nucleus accumbens; Raphe; Sucrose fading; Biological basis of reinforcement (Deckel, A.W. (723) 70)

Substantia nigra; Deep piriform cortex; Bicuculline; Seizure; γ-Aminobutyric acid (Pasini, A. (724) 84)

α-Methyl tryptophan; In vivo enzyme activity; Serotonin synthesis; Serotonergic mechanism (Ljubić-Thibal, V. (724) 222)

Hypothalamus; Neuropeptide Y; *p*-Chlorophenylalanine (Dryden, S. (724) 232)

Wobbler mouse; Motoneuron disease; Spinal cord; Thyrotropin releasing hormone; Substance P; Receptor; Quantitative autoradiography (Deng, Y.-P. (725) 49)

Anorectic agent; Paraventricular hypothalamus; Cholecystokinin; Drug tolerance; Escalating dose regimen (Li, B.-H. (728) 188)

Receptor; Transporter; Cortex; Rat (Crayton, J.W. (728) 260)

Ethanol; Tolerance; Dependence; Afterhyperpolarization; $5\text{-}HT_{1A}$ receptor; $5\text{-}HT_4$ receptor (Lau, A.H.L. (731) 12)

Interneuron; Dentate gyrus; Tenia tecta; Septum; Amygdala (Morales, M. (731) 199)

Nucleus tractus solitarius; Adenosine receptor; CGS 21680; Adenosine A_{2a} receptor; Receptor desensitization (Barraco, R.A. (733) 155)

5-Hydroxyindoleacetic acid; Monoamine oxidase type A or B; Monoamine oxidase inhibitor; Electrochemistry; Rat (Marinesco, S. (736) 82)

γ-Aminobutyric acid; Glycine; Periaqueductal gray; Spinal cord; Dorsal horn; Inhibition; Receptor (Peng, Y.B. (736) 189)

5-HT synthesis rate; Fenfluramine; Autoradiography; Rat brain (Mück-Šeler, D. (737) 45)

Ibogaine; Prolactin; Corticosterone; Dopamine (Ali, S.F. (737) 215)

Aspartate; Capillary electrophoresis; Laser-induced fluorescence detection; Dexfenfluramine; Frontal cortex; GABA; Glutamate; In vivo brain microdialysis (Rocher, C. (737) 221)

Quipazine; 8-OH-DPAT; Buspirone; Melatonin; Circadian rhythms (Kennaway, D.J. (737) 301)

Dorsal raphe nucleus; Intracellular recording; Electrophysiology; 5-HT neuron (Hajós, M. (737) 308)

Neuro-glia interaction; Mutant mouse; S-100β; $5\text{-}HT_{1A}$; Transplantation; Immunocytochemistry (Ueda, S. (738) 15)

$5\text{-}HT_{1A}$ receptor; $5\text{-}HT_{2A/2C}$ receptor; Spinal cord; α-Motoneuron; Primary afferent; Monosynaptic reflex (Hasegawa, Y. (738) 158)

Stress; Feeding; Behavioral activation; Hippocampus; Striatum; Amygdala; Frontal cortex (Rueter, L.E. (739) 57)

Extracellular recording; Firing pattern; Collision test; Dorsal raphe nucleus (Hajós, M. (740) 162)

Circadian rhythm; Suprachiasmatic nucleus; Methamphetamine; NAN-190; 5-HT_{1A} receptor (Moriya, T. (740) 261)

Nonphotic; 5,7-Dihydroxytryptamine; Suprachiasmatic nucleus, activity (Bobrzynska, K.J. (741) 205)

5-Hydroxytryptophan; Stress; Neurotensin; Brain; Rat (Dilts, R.P. (742) 294)

Monoamine; Dopamine; Norepinephrine; Salmon; Development (Ebbesson, S.O.E. (742) 339)

Genetically epilepsy-prone rat strain 9 (GEPR-9); Epilepsy; Electrophysiology (Salgado-Commissariat, D. (743) 212)

R(+)-8-OH-DPAT; D-Amphetamine; Dopamine; 5-HT_{1A} receptor; Prefrontal cortex; Anxiety; Microdialysis; Rat (Kuroki, T. (743) 357)

Serotonin (5-HT)
Chromosome; Open field; 5-HT_{1A}; 5-HT_{1B}; 5-HT_{2A}; 5-HT_{2C}; Mapping (Clément, Y. (709) 229)

Electrocorticogram; Low voltage fast activity; Neocortex; 5-HT agonist; 5-HT receptor (Dringenberg, H.C. (728) 181)

Serotonin 5-HT_{1A} receptor
Schizophrenia; [^{3}H]8-OH-DPAT; Up-regulation; Prefrontal cortex; Postmortem brain (Sumiyoshi, T. (708) 209)

Aging; EEDQ; 8-Hydroxy-DPAT; Receptor binding (Keck, B.J. (728) 130)

Serotonin 5-HT_{1B} receptor
Long-term potentiation; Serotonin; Subiculum; Glutamatergic transmission (Boeijinga, P.H. (721) 59)

Serotonin 5-HT_3 receptor
(S)-Zacopride; Radioligand binding; Pig brain (Fletcher, S. (729) 281)

Serotonin neuron
L-DOPA; Dopamine; Monoamine oxidase; Pargyline; Dorsal raphe nucleus; Rat; Parkinson's disease (Arai, R. (722) 181)

Serotonin receptor
5-HT_{1B} receptor; 5-$HT_{1D\beta}$ receptor; Serotonin; Serotonin transporter; 5,7-Dihydroxytryptamine; Citalopram; Dorsal raphe; Autoreceptor (Neumaier, J.F. (722) 50)

Serotonin$_{1A}$ receptor
Dorsal raphe nucleus; Serotonin transporter; Human midbrain; Tryptophan hydroxylase (Stockmeier, C.A. (727) 1)

Serotonin receptor subtype
Estrogen; Blood pressure; Heart rate; 5-HT_{1A} receptor; Gender difference; 8-OH-DPAT; Parasympathetic nervous system; Estradiol (Alper, R.H. (716) 224)

Serotonin release
D-Fenfluramine; Neurotoxicity; Serotonin uptake carrier; Rat brain; Synaptosome (Gobbi, M. (730) 165)

Serotonin synthesis
α-Methyl tryptophan; Serotonin; In vivo enzyme activity; Serotonergic mechanism (Ljubić-Thibal, V. (724) 222)

Serotonin transporter
Aging; Depression; Dexamethasone; Glucocorticoid (Fumagalli, F. (719) 225)

5-HT_{1B} receptor; 5-$HT_{1D\beta}$ receptor; Serotonin; Serotonin receptor; 5,7-Dihydroxytryptamine; Citalopram; Dorsal raphe; Autoreceptor (Neumaier, J.F. (722) 50)

Dorsal raphe nucleus; Serotonin$_{1A}$ receptor; Human midbrain; Tryptophan hydroxylase (Stockmeier, C.A. (727) 1)

Serotonin uptake carrier
D-Fenfluramine; Neurotoxicity; Serotonin release; Rat brain; Synaptosome (Gobbi, M. (730) 165)

Serpin
Peripheral nerve; Leupeptin; Aprotinin; APP; Deposit; Schwann; Anchoring junction; Desmosome; Alzheimer (Moreno, R.D. (718) 13)

Serum
Brain-derived neurotrophic factor; Serotonin; Neurotrophic factor; Platelet; Brain; ELISA immunoassay (Radka, S.F. (709) 122)

Hydroxyindole-*O*-methyltransferase; Melatonin; Y-79 retinoblastoma; S-antigen (Bernard, M. (727) 118)

Serum concentration
EL mouse; Epilepsy; Antiepileptic drug; Zonisamide; Drug interaction; Brain concentration (Nagatomo, I. (731) 190)

Serum deprivation
Cortical neuron; PC12; Programmed cell death; Nerve growth factor; Reactive oxygen species (Satoh, T. (733) 9)

Serum level
Benzodiazepine; Tolerance; Withdrawal; Exploration; Locomotor activity (Fernandes, C. (734) 236)

Set-point
Haloperidol; Atropine; Dantrolene sodium; Forced hyperthermia; Creatine phosphokinase; Muscle rigidity; Neuroleptic malignant syndrome (Tanii, H. (743) 263)

Sevoflurane
Noradrenaline; Posterior hypothalamus; Wistar rat; Intracranial microdialysis; Recovery; Halothane (Chave, S. (706) 293)

Sex
Pain-related behavior; Mechanical test; Estrus; Rat (Kayser, V. (742) 352)

Sex difference
Corticosteroid receptor; Hippocampus; Autoradiography (MacLusky, N.J. (708) 71)

Sexual dimorphism; Amphetamine; c-Fos; Striatum; Basal ganglia; Dopamine (Castner, S.A. (712) 245)

VMH; Receptor autoradiography; CCK_B-R; Estrogen; Testosterone (Popper, P. (712) 335)

Estrogen receptor; Progesterone receptor; Hypothalamus; Preoptic area; Autoradiography; Estrogen; Guinea pig (Brown, T.J. (725) 37)

Convulsion, picrotoxin-induced; Picrotoxin; Gonadal hormone; TBOB binding; Rat (Peričić, D. (736) 174)

Corpus striatum; Olfactory tubercle; Parkinson's disease; Orchidectomy; Estrogen (Dluzen, D.E. (715) 113)

Sex hormone
Ascorbate; Glutathione; Free radicals; Decapitation ischemia; Gender; Hippocampus (Kume-Kick, J. (738) 8)

Sexual behavior
Lipopolysaccharide; Depression; Saccharin preference; Anorexia; Body weight; Social exploration; Open-field test; Tricyclic antidepressant; Imipramine (Yirmiya, R. (711) 163)

Vasotocin; Vasopressin; Aging; Preoptic region; Avian brain; Quantitative analysis (Panzica, G.C. (712) 190)

Ventral tegmental area; Opioid; Motivation; Reward; Anticipatory behavior (Van Furth, W.R. (729) 20)

Androgen; Brain; Marking; Preference; Ultrasonic vocalizations; Urine; Mouse (Sipos, M.L. (729) 29)

c-*fos*; Gonadotrophin; Brainstem (Condé, G.L. (735) 197)

Progesterone; Luteinizing hormone; Ventromedial hypothalamus; Preoptic area; Female; Sheep (Blache, D. (741) 117)

Sexual differentiation
Sexually dimorphic nucleus of the preoptic area; Medial preoptic nucleus; Apoptosis; Testosterone; Rat (Davis, E.C. (734) 10)

Sexual dimorphism
Autoradiography; Brain; Communication; Fish; Pituitary; Steroid (Fine, M.L. (709) 65)

Sex difference; Amphetamine; c-Fos; Striatum; Basal ganglia; Dopamine (Castner, S.A. (712) 245)

Corpus callosum; Magnetic resonance imaging; Methodology (Constant, D. (727) 99)

Paradoxical sleep; Estrus; REM sleep; Ovariectomy; Slow wave sleep; Rat (Fang, J. (734) 275)

Glutamic acid decarboxylase; Preoptic area; Suprachiasmatic nucleus; Human GABA (Gao, B. (742) 163)

Medial preoptic area; Oxytocin; Paraventricular nucleus; Substantia nigra (Dubois-Dauphin, M. (743) 32)

Sexually dimorphic nucleus of the preoptic area
Medial preoptic nucleus; Apoptosis; Testosterone; Sexual differentiation; Rat (Davis, E.C. (734) 10)

Sexual stimulation
c-*fos*; Reproductive behavior; Estradiol; Progesterone (Pfaus, J.G. (741) 314)

SGP-2
In situ hybridization; MK-801; NBQX; Permanent MCAO; GFAP; Clusterin (Yamashita, K. (735) 285)

Sham drinking
Maltose dextrin; Water deprivation; μ-Receptor; κ-Receptor; δ-Receptor; Sham feeding; Palatability; Post-ingestive mechanisms (Leventhal, L. (741) 300)

Sham feeding
Maltose dextrin; Water deprivation; μ-Receptor; κ-Receptor; δ-Receptor; Sham drinking; Palatability; Post-ingestive mechanisms (Leventhal, L. (741) 300)

Sheath cell
Chemoreceptor; Glomus cell; Hypoxia; K current; Oxygen (Chou, C.-L. (742) 34)

Sheep
Cortiotropin releasing factor; Binding protein; Stress; Membrane; Purification (Behan, D.P. (709) 265)

GABA; Glycine; Inhibitory amino acid; Immunohistochemistry; Nucleus tractus solitarii (Sweazey, R.D. (737) 275)

Progesterone; Sexual behavior; Luteinizing hormone; Ventromedial hypothalamus; Preoptic area; Female (Blache, D. (741) 117)

c-*Fos*; Milk-ejection reflex; Dorsal root ganglia; Spinal cord; Hypothalamus (Tsingotjidou, A. (741) 309)

Shell
Excitotoxin; Response-reinforcement; Core; Subregion; Re_{50}; R_{max}; Motor activity (Johnson, P.I. (722) 109)

Shift effect
Lateral geniculate nucleus; Receptive field; Linear/non-linear contrast integration; Second harmonics; Visual system (Funke, K. (742) 50)

Short-term adrenalectomy
Long-term adrenalectomy; Glucocorticoid receptor; Immunohistochemistry; Silver impregnation; Forebrain; Rat (Visser, D.T.M. (729) 216)

Short-term potentiation
Long-term potentiation; Lead; NMDA; Excitatory postsynaptic potential; Electrophysiology; Extracellular recording; Neurotoxicity (Grover, C.A. (734) 61)

Plasminogen; Plasmin; α_2-Antiplasmin; Long-term potentiation; NMDA receptor; Hippocampal slice; Rat (Mizutani, A. (739) 276)

Short-term social memory
Histamine; α-Fluoromethylhistidine; Immepip; Thioperamide; Histidine (Prast, H. (734) 316)

SH-SY5Y cell
Opiate tolerance and dependence; Adenylate cyclase supersensitivity; Stimulatory signal transduction; μ Opioid receptor; PGE_1 receptor; Stimulatory G protein; Morphine (Ammer, H. (707) 235)

Siberian hamster
Melatonin; Anterior hypothalamus; Microdialysis; Radioimmunoassay; Pharmacokinetic (Ferreira, S.A. (733) 318)

Side effect
Synaptic stripping; Microglia; Cellular swelling; Immunoreactivity; B-50/GAP-43 (Ulenkate, H.J.L.M. (717) 29)

Sigma binding site
Kappa opioid; Guinea-pig brain; Liver; Spleen; Autoradiography; Receptor binding (Brent, P.J. (725) 155)

Sigma (σ) agonists
PRE-084; Learning and memory; Aging; Passive avoidance; Y-maze; Water-maze; JO-1784 (igmesine); Senescence-accelerated mouse (SAM) (Maurice, T. (733) 219)

Signal transduction
Muscarinic receptor; Phospholipase C; Phosphoinositide; PLC-mRNA; In situ hybridization; Aging; Fisher rat; Brain (Narang, N. (708) 143)

Glioma; Inhibitor; Protein kinase C; Tyrosine kinase (Baltuch, G.H. (710) 143)

Vomeronasal organ; Accessory olfactory bulb; Topographic projection; Receptor neuron; G protein (Jia, C. (719) 117)

Phosphoinositide; Inositol phosphate; Depression; G-protein (Pacheco, M.A. (723) 37)

Silver impregnation
Short-term adrenalectomy; Long-term adrenalectomy; Glucocorticoid receptor; Immunohistochemistry; Forebrain; Rat (Visser, D.T.M. (729) 216)

Simultaneous recording
Ensemble coding; Stimulus discrimination; Afferent, single; Afferent, sensory; Afferent, muscle; Mechanoreceptor (Bergenheim, M. (734) 157)

Singing
HVC; Testosterone; Gap-junction; Canary; Plasticity (Gahr, M. (712) 69)

Single channel
N-Methyl-D-aspartate receptor; Glutamate; Glycine; Competitive antagonism; Coagonist hypothesis; Excitatory amino acid; 5,7-Dichlorokynurenate (Currás, M.C. (740) 27)

Single-channel recording
N-Methyl-D-aspartate; Ethanol; Kinetic analysis; Whole-cell recording; Mouse, inbred strain C57BL/6 (Wright, J.M. (738) 249)

Single olfactory neuron
Odor discrimination; Odorant receptor; Whole-cell patch clamp; Ciliary recording; Bullfrog; Cross-adaptation (Kashiwayanagi, M. (738) 222)

Single sodium channel current
Pyrethroid; Tetramethrin; Sodium channel; Dorsal root ganglion (Song, J.-H. (712) 258)

Single unit
Dopamine; Medial forebrain bundle; Refractory period; Reward; Ventral striatum (Anderson, R.M. (718) 83)

Adaptation; Cross axis; Medial vestibular nucleus; Motor learning; Plasticity; Superior vestibular nucleus; Vestibulo-ocular reflex (Quinn, K.J. (718) 176)

Human; Auditory cortex; Tonotopic representation; Microelectrode; Chronic (Howard III, M.A. (724) 260)

Single unit activity
Serotonin; Dorsal raphe nucleus; Cat; Motor activity; Feeding; Grooming; Central pattern generator (Fornal, C.A. (716) 123)

Limbic thalamus; Cingulate cortex; Avoidance learning; Discrimination; Pre-motor neuronal activity (Kubota, Y. (721) 22)

Rostral ventrolateral medulla; Glutamate; Glycine; Parasympathetic/sympathetic interaction (McKitrick, D.J. (742) 203)

Single-unit recording
Calbindin immunohistochemistry; Freely moving rat; Matrix; Striatum; Striosome (Trytek, E.S. (707) 221)

Nucleus accumbens; Subpallidal area; Ventral tegmental area; Dextran-conjugated-rhodamine tracer; Limbic-motor integration (Wu, M. (740) 151)

Action potential shape; Propagation block; Template matching; Human peripheral nerve; Concentric needle electrode; Microneurography (Wu, G. (742) 225)

Single-unit recording in ambulant rats
Acetylcholine; Dopamine; Glutamate; Iontophoresis; Nucleus accumbens; Striatum (Kiyatkin, E.A. (713) 70)

Single-unit recording in freely moving rats
Amphetamine; Amygdala; Clozapine; Haloperidol (Wang, Z. (711) 64)

Size principle
Cutaneous afferent; Spinal convergence; Segmental reflex; Pain; Voluntary command; Human locomotion (Rossi, A. (714) 76)

Skeletal muscle
Neuromuscular junction; Synaptic transmission; Nitric oxide; Cholinergic transmission; Ocular muscle; Acetylcholine receptor (Kusner, L.L. (730) 238)

SKF 38393
Voltammetry; Mesocorticolimbic dopamine; Infralimbic cortex; SCH 23390; Sulpiride; Quinpirole; GBR 12909 (Doherty, M.D. (715) 86)

Alcohol; SCH-23390; Paired-pulse responses; Lateral septal nucleus; Dentate gyrus (Criado, J.R. (716) 192)

Acetylcholine release; Dopamine D_1 receptor; Dissociated neuron; Striatum (Login, I.S. (727) 162)

Corticosteroid receptor; C57BL/6; DBA/2; Hippocampus; LY 171555; Passive avoidance; SCH 23390; (−)-Sulpiride (Cabib, S. (729) 110)

Adenosine receptor A_2; Striatum; DMPX; Dopamine receptor D_1; c-Fos (Pollack, A.E. (743) 124)

Skilled forelimb use in rat
Corticospinal neuron; Plasticity; Dendritic branching; Recovery of function; Motor cortex (Prusky, G. (714) 1)

Skin vasodilation
Dorsal column stimulation; Spinal cord stimulation; Laser Doppler; Microcirculation; Spinal cord (Croom, J.E. (728) 281)

Sleep
Nitric oxide synthase; Nitric oxide; Circadian rhythm; Central nervous system; Hypothalamus; Protein level; Rat (Ayers, N.A. (707) 127)

Nerve growth factor; Cholinergic basal forebrain; EEG power spectrum; 192 IgG-saporin; Rat (Kapás, L. (712) 53)

Absence epilepsy; Reticular formation; Seizure; Thalamus; Thalamocortical (Szymusiak, R. (713) 253)

Brain nitric oxide synthase; Central depression; 7-Nitro indazole; Nitric oxide; Nitric oxide inhibitor; Rat (Dzoljic, M.R. (718) 145)

Arousal; Light reflectance; Optical imaging; Paraventricular hypothalamus; PVH; PVN; REM; Waking; Slow wave; Neuroendocrine (Kristensen, M.P. (727) 107)

Sleep deprivation; Cat; c-*fos*; Preoptic area; Stress (Ledoux, L. (735) 108)

Apamin; Neurotoxin; Waking; Insomnia; Ca^{2+}-activated K^+ channel (Gandolfo, G. (736) 344)

Prenatal alcohol exposure; Memory; Glucose; Spontaneous alternation; Radial arm maze; Inhibitory avoidance (Stone, W.S. (742) 98)

Sleep deprivation
Cat; c-*fos*; Preoptic area; Stress; Sleep (Ledoux, L. (735) 108)

NA-LC system; Sleep recovery; Methylamphetamine; Water tank; DSP-4
(Del C. González, M.M. (740) 215)

Sleep homeostasis
Aging; Spectral analysis; Sleep regulation; Circadian rhythm; Slow wave; Sleep spindle (Landolt, H.-P. (738) 205)

Sleep recovery
NA-LC system; Sleep deprivation; Methylamphetamine; Water tank; DSP-4
(Del C. González, M.M. (740) 215)

Sleep regulation
Aging; Spectral analysis; Sleep homeostasis; Circadian rhythm; Slow wave; Sleep spindle (Landolt, H.-P. (738) 205)

Sleep spindle
Aging; Spectral analysis; Sleep regulation; Sleep homeostasis; Circadian rhythm; Slow wave (Landolt, H.-P. (738) 205)

Sleep–wake cycle
Alzheimer's disease; Melatonin; Circadian rhythm; Suprachiasmatic nucleus; Delirium; Pineal gland; Light–dark cycle (Uchida, K. (717) 154)

Slice
γ-Aminobutyric acid; Spinal cord; Paired pulse facilitation; Inhibitory postsynaptic current; Patch clamp method (Tanabe, M. (716) 101)

Cerebellum; Fluorescence; Microscopy; Phospholipid (Schreurs, B.G. (730) 125)

Rat striatum; Synaptosome; Arachidonic acid; GABA uptake; GABA release (Chéramy, A. (742) 185)

Brain-derived neurotrophic factor; Release; Synaptosome; Superfusion; Veratridine; Cortex; Hippocampus (Androutsellis-Theotokis, A. (743) 40)

Slow axonal transport
Tubulin isotype; Class II β-tubulin; Class III β-tubulin; Axon regeneration; Tubulin expression; Immunoprecipitation (Hoffman, P.N. (742) 329)

Slow excitatory transmission
Substance P; Glutamate; *N*-Methyl-D-aspartate; Tachykinin; Dorsal root stimulation; Nociception; Wind-up (Baranauskas, G. (738) 329)

Slow wave
Arousal; Light reflectance; Optical imaging; Sleep; Paraventricular hypothalamus; PVH; PVN; REM; Waking; Neuroendocrine (Kristensen, M.P. (727) 107)

Aging; Spectral analysis; Sleep regulation; Sleep homeostasis; Circadian rhythm; Sleep spindle (Landolt, H.-P. (738) 205)

Slow wave sleep
Paradoxical sleep; Estrus; REM sleep; Ovariectomy; Rat; Sexual dimorphism (Fang, J. (734) 275)

Small synaptic vesicle
Axonal reticulum; Axonal transport; Sympathetic nerve; Synaptophysin; Large dense-core vesicle (Quatacker, J. (731) 101)

SMI31
IMR-32; Cell culture; Neurofilament; Oxidative stress; Ascorbate (Cookson, M.R. (738) 162)

Snake
NADPH-diaphorase; DPIP; Enzyme histochemistry; Brain; Infrared (Jiang, P.-J. (713) 168)

SNAP-25
Exocytosis; VAMP-2; Botulinum neurotoxin; MgATP (Misonou, H. (737) 351)

SNARF
Age; Hippocampus; Brain slice; pH regulation; Fluorescence (Roberts Jr., E.L. (735) 339)

SNX-111
Focal cerebral ischemia; Calcium channel; Diffusion-weighted MRI; ω-Conopeptide; Excitotoxicity; Rat (Yenari, M.A. (739) 36)

Social exploration
Lipopolysaccharide; Depression; Saccharin preference; Sexual behavior; Anorexia; Body weight; Open-field test; Tricyclic antidepressant; Imipramine (Yirmiya, R. (711) 163)

Social interaction
Dopamine; Stress; Nucleus accumbens; Frontal cortex; Striatum; Microdialysis; Aggression (Tidey, J.W. (721) 140)

5-HT_{1A}; Benzodiazepine; Amygdala; 8-OH-DPAT; Midazolam; Plus-maze (Gonzalez, L.E. (732) 145)

Social isolation stress
Mouse; Pentobarbital sleep; Corticotropin releasing factor (CRF); Neurosteroid; Noradrenergic system (Matsumoto, K. (708) 1)

Social recognition
Vasopressin; Oxytocin; Antiserum; Hippocampus; Septum (Van Wimersma Greidanus, Tj.B. (713) 153)

Social stress
DSP-4; Hippocampus; Monoamine; Odor preference; Olfactory bulb; Olfactory learning (Cornwell, C.A. (711) 26)

Hippocampus; Calcium; Calcium-binding protein; Calbindin-D28k; Parvalbumin (Krugers, H.J. (729) 289)

Sodium
Astrocyte; Volume regulation; Methylmercury; Potassium; Taurine (Vitarella, D. (732) 169)

Sodium channel
Pyrethroid; Tetramethrin; Fenvalerate; Dichlorodiphenyltrichloroethane; Dorsal root ganglion (Song, J.-H. (708) 29)

Pyrethroid; Tetramethrin; Single sodium channel current; Dorsal root ganglion (Song, J.-H. (712) 258)

Neuroblastoma; Patch-clamp; Potassium channel; Action potential (Gu, X.Q. (735) 50)

Sodium-dependent potassium channel
Bullfrog; Patch-clamp; Taste cell; Apical membrane; Transduction (Miyamoto, T. (715) 79)

Sodium depletion
Subfornical organ; Organum vasculosum laminae terminalis; Angiotensin II; Water intake (Rowland, N.E. (728) 90)

Sodium nitroprusside
Noradrenaline release; Hippocampal slice; Dithiothreitol; Cyclic GMP (Satoh, S. (733) 167)

Opiate receptor; K^+ current; *Aplysia* neurons (Sawada, M. (740) 124)

Nitric oxide; *N*-Methyl-D-aspartate; Estrogen; Progesterone; Norepinephrine; Hypothalamus; Preoptic area (Chu, H.-P. (741) 60)

Sodium pentobarbital
Neuropeptide Y; Arousal; Corticotropin-releasing hormone; Psychological stress; Locomotor activity; Sedative action (Yamada, K. (725) 272)

Sodium-potassium ATPase
Tripeptide reduced glutathione; Astrocyte; Catabolism; Ischemia; ATP; Cysteine; Glutamate; Neurotoxicity (Juurlink, B.H.J. (710) 229)

Sodium taste receptor
Amiloride sensitivity; Temperature dependency; Mouse strain difference; NaCl preference; Chorda tympani nerve (Ninomiya, Y. (708) 153)

Solitarius
Autonomic; δ; Enkephalin; ICI 154,129; μ; Naloxone; Opioid; Vagal (Feldman, P.D. (709) 331)

Solubility
Alzheimer disease; Crosslink; Glycation; Neurofibrillary pathology; Paired helical filament (Smith, M.A. (717) 99)

Soluble guanylyl cyclase
cGMP; Dorsal root ganglia; Satellite cell; Sensory neuron (Kummer, W. (721) 191)

Soma size
Succinate dehydrogenase activity; Dorsal root ganglion; Rat; Cat (Ishihara, A. (716) 183)

Somatic cell fusion
Neuron; Dorsal root ganglia; Hybridoma; Emetine; Actinomycin D (Hikawa, N. (734) 345)

Somato-autonomic reflex
Vestibular sensory system; Autonomic nervous system; Movement; Gravity; Orthostatic hypotension (Ruggiero, D.A. (743) 294)

Somatosensory
Postsynaptic inhibition; Presynaptic inhibition; Interneuron; Cuneate nucleus; Gracile nucleus (Popratiloff, A. (706) 308)

Calbindin; Calretinin; Cuneate nucleus; Gracile nucleus; Parvalbumin; Synaptic organization (Crockett, D.P. (707) 31)

γ-Aminobutyric acid; Cortex; Inhibition; Microiontophoresis (Kyriazi, H.T. (712) 325)

Magnetoencephalography; Evoked field; Cortex; Area 3b; Human (Vanni, S. (737) 25)

Somatosensory activation
Neuronal nitric oxide synthase; 7-Nitroindazole; Trigeminal pathway; Autoradiography; [^{14}C]iodoantipyrine; α-Chloralose (Cholet, N. (708) 197)

Somatosensory cortex
Magnetoencephalography; Human; Movement-related magnetic field; Anesthesia; Movement-evoked field I; Motor field (Kristeva-Feige, R. (714) 201)

Anesthetized rat; Periodic medial lemniscus stimulation; Field potential; Phase-locking; Chaos; One-dimensional strobomap; Strange attractor; Period doubling-bifurcation; Correlation dimension; Lyapunov exponent (Ishizuka, S. (723) 46)

Movement; Human; Magnetoencephalography; Spectral power; Spontaneous activity; Motor cortex; Cortical rhythm; Event-related spectral change; Movement-related magnetic field (Feige, B. (734) 252)

Somatosensory evoked field
Magnetoencephalography; Mesial cortex; Human (Forss, N. (734) 229)

Somatosensory evoked potential
Peripheral nerve regeneration; Polyglycolic acid-collagen tube; Horseradish peroxidase; Electromyogram; Cat sciatic nerve; Intracellular recording from motoneuron; Reinnervation, misdirected (Kiyotani, T. (740) 66)

Somatosensory system
Calcium binding protein; Calbindin; Parvalbumin; Thalamocortical pathway; Nociception (Lin, R.C.S. (711) 50)

Somatostatin
Electroconvulsive seizure; Electroconvulsive stimulation; c-*fos*; Neuropeptide Y; Dentate gyrus (Woldbye, D.P.D. (720) 111)

CGRP; Nerve injury; Plasticity; Sensory neuron (Ji, R.-R. (721) 167)

Human hypothalamus; Huntington's disease; Nucleus tuberalis lateralis (NTL); Microwave pretreatment (Timmers, H.J.L.M. (728) 141)

Penile erection; Cysteamine; Cholinergic; Serotonergic; Dopaminergic (Matsuoka, N. (729) 132)

Haloperidol; Stereotypy; Enkephalin; Dynorphin; Substance P (Marin, C. (731) 57)

Neuropeptide Y; NADPH-diaphorase; Nitric oxide synthase; Co-localization; Striatum; Basal ganglia (Figueredo-Cardenas, G. (735) 317)

Hippocampal EEG seizure; Wet dog shakes; Neuropeptide Y; Dentate gyrus; Subiculum (Woldbye, D.P.D. (737) 162)

Hippocampus; Electron microscopy; γ-Aminobutyric acid; Neuropeptide Y (Commons, K.G. (738) 181)

Somatostatin binding site
Receptor mapping; Pons; Medulla; Human; Quantitative autoradiography (Carpentier, V. (734) 135)

Somatostatin receptor
Hippocampus; Octreotide; Pirenzepine; Plasticity (Nakata, A. (723) 135)

Somatotopical organization
Regional cerebral blood flow; Positron emission tomography; Self-paced movement; Human brain (Kawashima, R. (716) 141)

Songbird
Seasonal; Androgen; Neural plasticity (Smith, G.T. (734) 79)

Soybean agglutinin
Amphibian; Frog; Olfactory system; Accessory olfactory system; Extra-bulbar olfactory system; Acoustic system; Lectin (Meyer, D.L. (722) 222)

Spaceflight
Choroid plexus; Microvillus; Ezrin; Cell polarity; Gravity; Electron microscopy; Immunocytochemistry (Gabrion, J. (734) 301)

Spantide
Circadian rhythm; Immediate early gene; Fos; Suprachiasmatic nucleus; Substance P; Retinohypothalamic tract; Light (Abe, H. (708) 135)

SPARC
Astrocyte; Glia; SC1; Reactive astrocytosis; Extracellular matrix (McKinnon, P.J. (709) 27)

Spatial cognition
Cerebral ischemia; 8-Arm radial maze task; Microdialysis; Glutamate; Noradrenaline; Acetylcholine (Iwasaki, K. (709) 163)

Spatial cognitive deficit
MK801; CGS19755; YM90K; Scopolamine; 8-Arm radial maze; Augmentation (Li, H.-B. (725) 268)

Spatial frequency
Area 21a; Temporal frequency; Contrast sensitivity; Extrastriate cortex; Vision; Cat (Tardif, E. (716) 219)

Spatial learning
Hippocampus; CA1; CA3; Kainic acid; Water maze; Passive avoidance; Memory (Stubley-Weatherly, L.A. (716) 29)

β(25-35); Locus coeruleus; Norepinephrine (Chen, S.-Y. (720) 54)

Test experience (Boehm, G.W. (726) 11)

Spatial learning and memory
N-Methyl-D-aspartate antagonist; Dizocilipine maleate; MK-801; Cingulate cortex; Neurotoxicity; Neuropathology; Sensorimotor; Activity; Mouse (Wozniak, D.F. (707) 165)

Spatial memory
Dihydro-beta-erythroidine; Nicotinic antagonist; Morris water maze; Radial arm maze; Rat (Curzon, P. (714) 185)

Free radical; Deferoxamine; Brain injury (Long, D.A. (717) 109)

192-IgG-saporin; Aged rat; Acoustic startle; Morris water maze; Medial septum (Bannon, A.W. (718) 25)

Hippocampus; Lateral septum; Chlordiazepoxide; Lesion; Anxiety (Farber, H.T. (725) 257)

192-Saporin; Immunotoxin; Medial septum; Alzheimer's disease; Animal model; Cholinergic basal forebrain (Walsh, T.J. (726) 69)

Cortical impact; Cell death; Hippocampus (Colicos, M.A. (739) 111)

Apoptosis; Cortical impact; Granule cell (Colicos, M.A. (739) 120)

Spatial orientation
Cerebellum; Motor coordination; Visual discrimination learning; Fastigial nucleus; Sensorimotor learning (Joyal, C.C. (739) 1)

Spatial property
Otolith; Medial medullary reticular neuron; Off-vertical axis rotation; Bidirectional response sensitivity; Response dynamic; Cat (Chan, Y.S. (732) 159)

Sp-cAMPS
Protein kinase A; Forskolin; diB-cAMP; Macropatch; Miniature end-plate current; Tadpole; *Bufo marinus* (Quiñonez, M. (737) 327)

Species difference
Mouse; Hippocampus; Hilus; Morphometry; Mossy fiber (Donovan, J. (732) 253)

Spectral analysis
Aging; Sleep regulation; Sleep homeostasis; Circadian rhythm; Slow wave; Sleep spindle (Landolt, H.-P. (738) 205)

Spectral power
Movement; Human; Magnetoencephalography; Spontaneous activity; Motor cortex; Somatosensory cortex; Cortical rhythm; Event-related spectral change; Movement-related magnetic field (Feige, B. (734) 252)

Spectrin
Seizure; Calpain; Glutamate; Hippocampus; Neuropathology (Bi, X. (726) 98)

Spermidine
Autoradiography; Glutamate; Glycine; *N*-Methyl-D-aspartate receptor; [^{3}H]MK-801 (McCoy, L. (710) 103)

Spermine; Putrescine; Ganglion cell; Amacrine cell; Ion channel; Glutamate; NMDA receptor (Valentino, T.L. (713) 278)

Spermidine; Putrescine; Ganglion cell; Amacrine cell; Ion channel; Glutamate; NMDA receptor (Valentino, T.L. (713) 278)

S-phase marker
Microgyria; [^{3}H]Thymidine; Bromodeoxyuridine; Neocortex; Corticogenesis (Rosen, G.D. (727) 71)

Sphenopalatine ganglion
Vomeronasal organ; Trigeminal ganglion; Nitric oxide synthase; Neuropeptide; Coexistence; Dual band filter; Mouse (Matsuda, H. (712) 35)

Sphingosine
Tetrahydrobiopterin; Epidermal growth factor; Nerve growth factor; Interferon-γ; Tyrosine hydroxylase; Guanosine triphosphate cyclohydrolase; Cyclic adenosine monophosphate; Pheochromocytoma cell (Anastasiadis, P.Z. (713) 125)

Ca^{2+} mobilization; Intracellular Ca^{2+} pool; Mitochondria; Arachidonic acid; Sphingosylphosphorylcholine (Huang, W.-C. (718) 151)

Sphingosylphosphorylcholine
Ca^{2+} mobilization; Intracellular Ca^{2+} pool; Mitochondria; Arachidonic acid; Sphingosine (Huang, W.-C. (718) 151)

Spike train
Burst; Seizure; Tissue (Colder, B.W. (719) 96)

Spiking threshold
Long-term depression; Age-dependency; Input-specificity; Heterosynaptic depression; NMDA receptor; Low-frequency stimulation (Staubli, U.V. (714) 169)

Spinal analgesia
Pain; Calmodulin inhibitor; Central hyperalgesia; Formalin test; Tail flick test; Rotarod test; Rat (Menendez, L. (731) 114)

Spinal convergence
Cutaneous afferent; Size principle; Segmental reflex; Pain; Voluntary command; Human locomotion (Rossi, A. (714) 76)

Spinal cord
Dynorphin(1–8); Nociception; Antinociception; Thermal stimulation; Tachykinin (Zachariou, V. (706) 80)

Central canal; Perivascular space; Cerebrospinal fluid; Horseradish peroxidase; Syringomyelia (Stoodley, M.A. (707) 155)

Rat; Transplantation; Noradrenaline; Synaptic junction (Giménez y Ribotta, M. (707) 245)

Vagus nerve; Vagina; Cervix; Vaginocervical stimulation; Analgesia; Pupil dilatation (Komisaruk, B.R. (708) 128)

c-*fos*; Ureter; Electrical stimulation; Rat; Afferent input (Matsumoto, G. (709) 197)

Neuronal bungarotoxin; Neuromuscular junction; Apoptosis; Motoneuron death; α-Bungarotoxin (Renshaw, G.M.C. (709) 316)

Dynorphin $A_{(1-8)}$; Peripheral inflammation; Release; Antibody microprobe (Riley, R.C. (710) 131)

Substance P; CP-99,994; Substance P(1–7); Iontophoresis; Wind-up; Nociception; Rat (Budai, D. (710) 197)

Autotomy; Mouse; Neuropathic pain (Defrin, R. (711) 241)

Carrageenan; COX-2 inhibitor; Inflammation; Nociception; Rat (Buritova, J. (715) 217)

γ-Aminobutyric acid; Paired pulse facilitation; Inhibitory postsynaptic current; Patch clamp method; Slice (Tanabe, M. (716) 101)

Rat; In vitro; Prolonged inhibition; GABA; $GABA_B$ (Lacey, G. (717) 76)

Glycine; Strychnine; Allodynia; Voltammetry; Locus ceruleus; Excitatory amino acid (Milne, B. (718) 198)

Fos; Arthritis; Inflammation; Formalin; Potentiation (Leah, J.D. (719) 104)

Substance P receptor; Trigeminothalamic tract; Spinothalamic tract; Nociception; Trigeminal nuclei; Thalamus; Rat (Li, J.-L. (719) 207)

Nociception; Pain; Antinociception; Analgesia; Noxious stimulus; Spinal reflex (Romita, V.V. (720) 45)

Acetylcholine; Analgesia; Atropine; Intrathecal; Methysergide; Naloxone; Noradrenaline; Serotonin; Yohimbine (Fang, F. (722) 95)

Antinociception; Substance P; NMDA; Opioid; Intrathecal administration (Masuyama, T. (722) 200)

Visceral afferent; Immediate early gene; Renorenal reflex; c-*fos*; Dorsal root ganglion; Albino rat; Kidney (Fitch, G.K. (723) 199)

Nitric oxide; Tyrosine hydroxylase; Sympathetic preganglionic neuron (Smithson, I.L. (723) 218)

Morphine; Scratch reflex; NK-1 receptor antagonist; Intrathecal injection (Sakurada, T. (724) 213)

Wobbler mouse; Motoneuron disease; Thyrotropin releasing hormone; Substance P; Serotonin; Receptor; Quantitative autoradiography (Deng, Y.-P. (725) 49)

Axonal regeneration; Respiratory neuron; Peripheral nerve graft; Electrophysiology; Nerve grafting; Rat; Schwann cell; Wallerian degeneration (Decherchi, P. (726) 181)

Hyperalgesia; Monoamine; Glycine; γ-Aminobutyric acid; Neuropathy; Pain (Satoh, O. (728) 27)

Dorsal column stimulation; Spinal cord stimulation; Laser Doppler; Skin vasodilation; Microcirculation (Croom, J.E. (728) 281)

Zif268; Postnatal development; Afferent stimulation; Rat (Liang, F. (729) 246)

α-Motoneuron; Axonal lesion; Retrograde reaction; Ventral root avulsion; Cat (Holmberg, P. (731) 155)

Antinociception; c-Fos; Morphine; Carrageenin; μ-Opioid receptor; β-Funaltrexamine (Honoré, P. (732) 242)

Insulin; Brain; Dorsal root ganglia; mRNA; Polymerase chain reaction; In solution hybridization; Electron microscopy (Schechter, R. (736) 16)

Allodynia; α_2-Adrenoceptor agonist; Central pain; Clonidine; Intrathecal; Neuropathic pain; Sedation (Hao, J.-X. (736) 28)

γ-Aminobutyric acid; Glycine; Periaqueductal gray; Dorsal horn; Inhibition; Receptor; Serotonin (Peng, Y.B. (736) 189)

Nitric oxide; 7-Nitro indazole; Nociception; Intrathecal; Wind-up; Inflammation (Stanfa, L.C. (737) 92)

Insulin-like growth factor I; Insulin; Nociceptive transmission (Bitar, M.S. (737) 292)

Rat; Brachial enlargement; Forelimb; Motor nucleus; Motoneuron; Fluorescent tracer (Choi, J.Y. (738) 146)

Serotonin; 5-HT_{1A} receptor; 5-$HT_{2A/2C}$ receptor; α-Motoneuron; Primary afferent; Monosynaptic reflex (Hasegawa, Y. (738) 158)

c-*Fos*; Milk-ejection reflex; Dorsal root ganglia; Hypothalamus; Sheep (Tsingotjidou, A. (741) 309)

Neuropeptide; Hyperalgesia; Pain; Neuropathic; Model; Rat; Nerve injury; Chronic constriction injury (Munglani, R. (743) 102)

Spinal cord dorsal horn
Thalamic nucleus submedius; Nociceptive neuron; Descending modulation; Rat (Zhang, Y.-Q. (737) 16)

Spinal cord hyperexcitability
Tachykinin; Neurokinin receptor; Nociception; Hyperalgesia; Inflammation; Substance P; Flexion reflex (Parsons, A.M. (739) 263)

Spinal cord injury
Acetylcholinesterase; Enzyme histochemistry; Motoneuron; Descending tract (Nacimiento, W. (714) 177)

Analgesia; Allodynia; Capsaicin; C-fiber; Cold; Hyperalgesia; Mechanical stimulation; Neuropathic pain (Hao, J.-X. (722) 177)

Endothelin-1; Astrocyte; SB209670; Monoclonal antibody RC1 (Uesugi, M. (728) 255)

Exercise; Fetal spinal cord implant; Hyperreflexia; H-reflex; Rat (Skinner, R.D. (729) 127)

Axotomy; Culture; Ion; Calcium; Trauma; Gray matter; White matter (Rosenberg, L.J. (734) 349)

Axon; Potassium channel; 4-Aminopyridine; Tetraethylammonium (Fehlings, M.G. (736) 135)

Spinal cord stimulation
Dorsal column stimulation; Laser Doppler; Skin vasodilation; Microcirculation; Spinal cord (Croom, J.E. (728) 281)

Spinal injury
Axotomy; Microglial cell; *Griffonia simplicifolia* isolectin B_4 (GSA I-B_4); Red nucleus; Intrinsic central neuron (Tseng, G.-F. (715) 32)

Spinal ischemia
Rabbit; Cu/Zn superoxide dismutase; Nitric oxide synthase; Nitrotyrosine; Motor neuron death (Watanabe, M. (732) 69)

Spinal nucleus of the bulbocavernosus
Androgen; Gerbil; Cell death (Forger, N.G. (735) 119)

Spinal reflex
Nociception; Pain; Antinociception; Analgesia; Noxious stimulus; Spinal cord (Romita, V.V. (720) 45)

Spinal transection
Spinothalamic tract neuron; Cardiopulmonary sympathetic afferent; Inhibition; Nociception; Vagus nerve (Zhang, J. (709) 337)

Spinal trigeminal caudal subnucleus
Periaqueductal gray; Raphe nucleus; Substance P; Antinociception; Rat (Li, Y.-Q. (719) 219)

Spinal trigeminal nucleus
Caudalis; Interpolaris; c-Fos; Heart rate conditioning; Unconditioned stimulus; Cornea; Medial geniculate (McEchron, M.D. (710) 112)

Spine
Cortex; Varicosity; Biotinylated dextran amine; Pigeon (Veenman, C.L. (707) 1)

Spinothalamic tract
Substance P receptor; Trigeminothalamic tract; Nociception; Trigeminal nuclei; Spinal cord; Thalamus; Rat (Li, J.-L. (719) 207)

Spinothalamic tract neuron
Cardiopulmonary sympathetic afferent; Spinal transection; Inhibition; Nociception; Vagus nerve (Zhang, J. (709) 337)

Spiperone
8-OH-DPAT; Ipsapirone; BMY 7378; Electroencephalography; Rhythmic slow activity; Serotonergic neuronal activity; REM sleep; Cat (Marrosu, F. (739) 192)

Spleen
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Sympathetic nerve; Ventromedial hypothalamus; Mitogenic response; Glucocorticoid; Lymphocyte (Okamoto, S. (739) 308)

Spontaneous action potential
γ-Aminobutyric acid; Spontaneous $[Ca^{2+}]_c$ oscillation (Busik, J. (739) 97)

Spontaneous activity
Movement; Human; Magnetoencephalography; Spectral power; Motor cortex; Somatosensory cortex; Cortical rhythm; Event-related spectral change; Movement-related magnetic field (Feige, B. (734) 252)

Spontaneous alternation
Prenatal alcohol exposure; Sleep; Memory; Glucose; Radial arm maze; Inhibitory avoidance (Stone, W.S. (742) 98)

Spontaneous $[Ca^{2+}]_c$ oscillation
γ-Aminobutyric acid; Spontaneous action potential (Busik, J. (739) 97)

Spontaneous discharge
Otolith; Vestibular nuclear neuron; Off-vertical axis rotation; Bidirectional response sensitivity; Rat (Lai, C.H. (739) 322)

Spontaneous expression
Suprachiasmatic nucleus; Circadian rhythm; *junB*; Gene expression; Immediate-early gene; Light; Entrainment; Transcription regulation (Guido, M.E. (732) 215)

Spontaneously hypertensive rat
Transient ischemia; Acetylcholine; Choline acetyltransferase; Acetylcholine esterase; Muscarinic M1-receptor (Ogawa, N. (712) 60)

Electroconvulsive shock; Seizure; Rat; Epilepsy; Animal model; Inbred rat strain (Francis, A. (721) 150)

Cardiovascular; Corticotropin-releasing factor; Hydralazine; Wistar–Kyoto rat (Youngblood, K. (734) 175)

Spontaneous pain
N-methyl-D-aspartate (NMDA) receptor antagonist; Non-competitive; Allodynia; Hyperalgesia; Nociception; Intraperitoneal (Qian, J. (715) 51)

Sprouting
Striatum; 6-Hydroxydopamine; Tyrosine hydroxylase; Dopamine β-hydroxylase; Ultrastructure (Blanchard, V. (709) 319)

Nerve growth factor; Sympathetic; Hippocampus; Septal lesion; Section culture; Basal forebrain; Rat (Tian, X. (725) 111)

Squirrel monkey
Calcium-binding protein; Basal ganglia; Immunohistochemistry; *Saimiri sciureus*; Neurodegenerative disease (Fortin, M. (708) 201)

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Medial prefrontal cortex; 5-HT_3-like receptor; Phosphoinositide hydrolysis; 5-HT_3 receptor agonist; PBG chlorinated derivative (Edwards, E. (733) 21)

Stab wound
Growth inhibitory factor; Gliosis; Reactive astrocyte; Immunohistochemistry; Confocal laser scan microscope (Hozumi, I. (741) 197)

Startle
Reflex function; Sensory system; Traumatic brain injury (Wiley, J.L. (716) 47)

Nucleus accumbens; Sensorimotor gating; Prepulse inhibition; Schizophrenia (Wan, F.-J. (722) 168)

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State-dependent learning
Ethanol; 5-Hydroxytryptamine$_3$ receptor; *N*-Methyl-D-aspartate receptor complex; Rat (Nakagawa, Y. (706) 227)

Status epilepticus
Brain; Hypoxia-ischemia; Immaturity; Neurotransmitters (Cataltepe, O. (709) 326)

Pilocarpine; Seizure; Cell death; Time course; *N*-Methyl-D-aspartate receptor; Glutamate (Fujikawa, D.G. (725) 11)

Neuronal injury; Glutamate; Excitotoxicity; Heat shock protein; Cell injury (Tanaka, K. (737) 59)

Stem cell factor
Enteric nervous system; Interstitial cells of Cajal; Pacemaker cells; Gastrointestinal motility (Torihashi, S. (738) 323)

Stereocilia bundle
Cochlea; Ontogenesis; Hair cell; Rat (Zine, A. (721) 49)

Stereology
Ultrastructure; Glial cell; Calcitonin gene-related peptide (CGRP) (Carlton, S.M. (711) 16)

Protein malnutrition; Hippocampus; Neuronal degeneration; Mossy fiber-CA3 synapse; Rat (Andrade, J.P. (718) 1)

Synaptic plasticity; Motor cortex; Restoration of function; Motor learning; Layer V; Forelimb behavior (Jones, T.A. (733) 142)

Stereotypy
Amphetamine; Behavioral sensitization; Cholinergic; Cocaine; Mice; Nicotinic (Karler, R. (725) 192)

Haloperidol; Enkephalin; Somatostatin; Dynorphin; Substance P (Marin, C. (731) 57)

Methamphetamine; Dopamine; Glutamate; AMPA; Schizophrenia (Larson, J. (738) 353)

NMDA receptor; Glutamate; Caudate-putamen; Striatum (McPherson, R.J. (739) 19)

Steroid
$GABA_A$; Barbiturate; Pregnanolone; Regulation; Modulation; Uncoupling; Tolerance (Friedman, L.K. (707) 100)

Autoradiography; Brain; Communication; Fish; Pituitary; Sexual dimorphism (Fine, M.L. (709) 65)

Calcitonin gene-related peptide; Substance P; Sensory nerve sprouting; Reparative dentin; Inflammation; Pain (Ferrari, A.M. (723) 125)

Male rat; Female rat; Medial preoptic area; Bed nucleus of the stria terminalis; Medial amygdala; Midbrain; Copulation (Coolen, L.M. (738) 67)

Steroid hormone
Nociception; Pain sensitivity; Tailflick latency; Progestin; Membrane mechanism; Non-genomic; γ-Aminobutyric acid; Lordosis (Frye, C.A. (709) 1)

$GABA_B$ receptor; Progesterone; Neocortex; Female rat (Al-Dahan, M.I. (727) 40)

Steroid hormone receptors
Ventromedial hypothalamus; Reptile (Hartman, V. (741) 344)

Steroid receptor
Neuronal differentiation; RT-PCR (Beaman-Hall, C.M. (726) 141)

Stimulation
Acetylcholine; Brainstem; REM sleep (Thakkar, M. (723) 223)

Stimulation-produced analgesia
Tonic pain; Chronic pain; Brain stimulation; Antinociception; Limbic system (Fuchs, P.N. (743) 116)

Stimulatory G protein
Opiate tolerance and dependence; Adenylate cyclase supersensitivity; Stimulatory signal transduction; μ Opioid receptor; PGE_1 receptor; Morphine; SH-SY5Y cell (Ammer, H. (707) 235)

Stimulatory signal transduction
Opiate tolerance and dependence; Adenylate cyclase supersensitivity; μ Opioid receptor; PGE_1 receptor; Stimulatory G protein; Morphine; SH-SY5Y cell (Ammer, H. (707) 235)

Stimulus discrimination
Ensemble coding; Simultaneous recording; Afferent, single; Afferent, sensory; Afferent, muscle; Mechanoreceptor (Bergenheim, M. (734) 157)

Stimulus train
Ganglion cell; Opiate receptor-mediated response; Met-enkephalin response; Synaptic activity, prolonged (Zhang, C. (710) 1)

Strain difference
Microdialysis; Dopamine; Ethanol; Lewis rat; Fischer 344 rat; Nucleus accumbens (Mocsary, Z. (706) 194)

Suprachiasmatic nucleus; Arginine-vasopressin; Neuropeptide Y; Rat (Wollnik, F. (724) 191)

Focal cerebral ischemia; Intraluminal thread; Rat; MK-801; Filament (Oliff, H.S. (731) 208)

Focal cerebral ischemia; Middle cerebral artery occlusion; MCA; MCA-O; Rat; Behavior; Behavioral examination (Van der Staay, F.J. (735) 271)

Strange attractor
Somatosensory cortex; Anesthetized rat; Periodic medial lemniscus stimulation; Field potential; Phase-locking; Chaos; One-dimensional strobomap; Period doubling-bifurcation; Correlation dimension; Lyapunov exponent (Ishizuka, S. (723) 46)

Stratum radiatum stimulation
Hippocampus; Isolated field excitatory postsynaptic potential; Current source density; Decay time constant; Late event (Kolta, A. (737) 133)

Stress
Cortiotropin releasing factor; Binding protein; Membrane; Purification; Sheep (Behan, D.P. (709) 265)

Feeding; Drinking; Restraint; Sensitization; Hypothalamic–pituitary–adrenal axis; Corticosterone; Adrenal hormone; Glucocorticoid; Rat (Badiani, A. (710) 35)

HPA axis; Dopamine system; Selection line; Corticosteroid receptor; Free corticosterone (Rots, N.Y. (710) 189)

Allopregnanolone; Acetylcholine release; Cortex; Hippocampus; Freely moving rat (Dazzi, L. (710) 275)

Dopamine; Laterality; 6-Hydroxydopamine; Medial prefrontal cortex; Nucleus accumbens; Striatum (Carlson, J.N. (711) 1)

Benzodiazepine withdrawal; γ-Aminobutyric acid (GABA)-gated chloride flux; Plus maze; Anxiety; Forced swim (Martijena, I.D. (712) 239)

Anxiety; Fos; Anxiety; Animal model; Medial prefrontal cortex; Lateral septum; Amygdala; Hypothalamus; Limbic cortex (Duncan, G.E. (713) 79)

Glutamate; Prefrontal cortex; γ-Aminobutyric acid; Dopamine; Microdialysis; Diazepam (Karreman, M. (716) 180)

Fasting; Immobilization; Estrogen receptor; Paraventricular nucleus; Nucleus of solitary tract (Estacio, M.A.C. (717) 55)

Dopamine; Nucleus accumbens; Frontal cortex; Striatum; Microdialysis; Aggression; Social interaction (Tidey, J.W. (721) 140)

Locus coeruleus; Corticotropin-releasing factor; Electrophysiology; Depression; Desensitization; Blood pressure (Conti, L.H. (722) 19)

Environment; Associative learning; Rotational behavior; Rat (Crombag, H.S. (722) 227)

Corticotropin-releasing factor; Binding protein; Urocortin; Complex (Behan, D.P. (725) 263)

Vasoactive intestinal peptide; VIP receptor; REM sleep deprivation; Brainstem; Diencephalon (Jiménez-Anguiano, A. (728) 37)

Brain–gut axis; Gastric secretion; Corticotropin-releasing factor; Locus coeruleus; Autonomic nervous system (Mönnikes, H. (728) 157)

Sleep deprivation; Cat; c-*fos*; Preoptic area; Sleep (Ledoux, L. (735) 108)

Lactation; Afferent, (nor)adrenergic; Hypothalamus-pituitary-adrenal (HPA) axis; Paraventricular nucleus (Toufexis, D.J. (737) 71)

Anxiety; Heart rate; Blood pressure; Adrenal hormone; Bicuculline (Keim, S.R. (739) 46)

Serotonin; Feeding; Behavioral activation; Hippocampus; Striatum; Amygdala; Frontal cortex (Rueter, L.E. (739) 57)

Heart rate; Autonomic nervous system; Medial frontal cortex; Agranular insular cortex; Noradrenaline; Dopamine; β-Adrenoceptor (Funk, D. (741) 220)

Prefrontal cortex; Dopamine release; Microdialysis; Arousal; Handling; Novelty; Food consumption (Feenstra, M.G.P. (742) 17)

Dorsomedial hypothalamus; Paraventricular nucleus; Heart rate; Blood pressure; Muscimol; Adrenocorticotrophic hormone (ACTH) (Stotz-Potter, E.H. (742) 219)

Serotonin; 5-Hydroxytryptophan; Neurotensin; Brain; Rat (Dilts, R.P. (742) 294)

WKHA rat; Inbred rat strain; Locomotor activity; Anxiety; Factor analysis; Neuroendocrinology; F2 intercross (Courvoisier, H. (743) 77)

Stress-induced sensitization
Corticosterone; Cocaine; Metyrapone; Food restriction; Locomotor response; Psychomotor effects (Marinelli, M. (724) 251)

Stress protein
Bilirubin; Heat shock protein; Heme-oxygenase; Hemoglobin; Subarachnoid hemorrhage (Matz, P. (713) 211)

Heat-shock; Survival; Neuroprotection; Antisense oligonucleotide; Cultured neuron (Sato, K. (740) 117)

Stress response
Behavioral lateralization; Prolactin; Inbred mouse; *Agouti* (Waters, N.S. (724) 112)

Stretch
Muscle spindle; Kinaesthesia; Proprioception; Intrafusal; Elbow joint; Contraction; Afferent; Sensation (Wise, A.K. (735) 125)

Striatal catecholamine
Fixed-ratio discrimination learning; Neonatal 6-hydroxydopamine; Cortical catecholamine; Dopaminergic neuronal plasticity; Operant training (Stodgell, C.J. (713) 246)

Striatal dopamine
Poly(ADP-ribose) polymerase; Benzamide; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; C57Bl/6 mouse; Cortical noradrenaline (Cosi, C. (729) 264)

MPTP; MPP^+; Gender; CD-1 mouse; Neurotoxicity (Freyaldenhoven, T.E. (735) 232)

Poly(ADP-ribose) polymerase; Benzamide; Methamphetamine; Neurotoxicity; Neuroprotection; C57Bl/6N mouse (Cosi, C. (735) 343)

Striatal dopamine receptor
Prolyl-leucyl-glycinamide; PLG analog; MIF-1; 6-Hydroxydopamine lesion; Apomorphine (Ott, M.C. (737) 287)

Striate cortex
Microvascularization; Development; Butyryl cholinesterase; Histochemistry (Argandoña, E.G. (732) 43)

Lateral geniculate nucleus; Adrenergic receptor; Development; Noradrenaline; Synaptic plasticity (Muguruma, K. (740) 131)

Stria terminalis
Amygdala; Memory modulation; Dexamethasone; Adrenalectomy; Inhibitory avoidance; Water maze (Roozendaal, B. (709) 243)

Predatory attack behavior; Medial amygdala; Substance P; Substance P (NK_1) receptor antagonist CP96,345; Cat; Hypothalamus (Han, Y. (716) 59)

Corticotropin-releasing factor; Fos; Seizure; Hypothalamus; Amygdala (Piekut, D. (743) 63)

Striatonigral
Cannabinoid; Substantia nigra; Iontophoresis; Local drug delivery; 2-Hydroxypropyl-β-cyclodextrin; γ-Aminobutyric acid inhibition (Tersigni, T.J. (733) 184)

Striatonigral neuron
Opioid receptor; Genetic control; Inbred mouse strain; Caudate-putamen; Adenylyl cyclase; Dopamine D_1 receptor; Adenosine A_{2a} receptor; Striatopallidal neuron (Noble, F. (716) 107)

Striatopallidal neuron
Opioid receptor; Genetic control; Inbred mouse strain; Caudate-putamen; Adenylyl cyclase; Dopamine D_1 receptor; Adenosine A_{2a} receptor; Striatonigral neuron (Noble, F. (716) 107)

Striatum
Hypoxia-ischemia; Development; Acetylcholine; Cholinergic; Microdialysis (Oo, T.F. (706) 145)

Aromatic L-amino acid decarboxylase; Serotonergic neuron; L-Dopa; Dopamine; Raphe nucleus; Cerebral cortex; Parkinson's disease (Arai, R. (706) 177)

Parkinson's disease; Substantia nigra; Dopamine receptor; Nigrostriatal (F. Piercey, M. (706) 249)

APEC; Adenosine; Amphetamine; c-Fos; CHA; Nucleus accumbens (Turgeon, S.M. (707) 75)

Cerebral laterality; Antidepressant drug; Biogenic amine; Medial prefrontal cortex; Nucleus accumbens (Carlson, J.N. (707) 122)

Calbindin immunohistochemistry; Freely moving rat; Matrix; Single-unit recording; Striosome (Trytek, E.S. (707) 221)

Glutamate; *N*-Methyl-D-aspartate (NMDA); In situ hybridization; Dizocilpine; Midbrain; Cortex (Healy, D.J. (708) 38)

Calretinin; Calcium-binding protein; Co-occurrence; Basal ganglia (Figueredo-Cardenas, G. (709) 145)

Rotational behavior; Substantia nigra; High-affinity dopamine uptake; Mazindol binding; Parkinson's disease (Jones, B.E. (709) 275)

Basal ganglia; Corticospinal cell; Motor cortex; Second somatosensory cortex; Corticothalamic cell (Lévesque, M. (709) 311)

Sprouting; 6-Hydroxydopamine; Tyrosine hydroxylase; Dopamine β-hydroxylase; Ultrastructure (Blanchard, V. (709) 319)

Dopamine; Locomotion; Treadmill; Neural transplantation; 6-Hydroxydopamine; Dynamic regulation; In vivo microdialysis (Hattori, S. (710) 45)

Purine; Hippocampus; Cortex; Adenosine transporter (Glass, M. (710) 79)

Stress; Dopamine; Laterality; 6-Hydroxydopamine; Medial prefrontal cortex; Nucleus accumbens (Carlson, J.N. (711) 1)

Sex difference; Sexual dimorphism; Amphetamine; c-Fos; Basal ganglia; Dopamine (Castner, S.A. (712) 245)

ACh release; $5\text{-}HT_3$ receptor; Entorhinal cortex; Ondansetron; Bicuculline (Ramírez, M.J. (712) 274)

Acetylcholine; Dopamine; Glutamate; Iontophoresis; Nucleus accumbens; Single-unit recording in ambulant rats (Kiyatkin, E.A. (713) 70)

Methamphetamine; Transgenic mouse; Superoxide dismutase; Superoxide radical; Dopamine uptake site; Gender (Hirata, H. (714) 95)

Globus pallidus; Glutamate; Fos; Recovery; Frontal cortex; Medial agranular cortex; Dopamine; Neglect; Amphetamine; Immediate early gene (Vargo, J.M. (716) 207)

Methamphetamine; MPTP; Malonate; Mice; Dopamine; Metabolic inhibition; Energy metabolism (Albers, D.S. (718) 217)

Substance P; Neurokinin-1; Parotid; Submaxillary; Immunocytochemistry; Receptor autoradiography; Tachykinin; Receptor heterogeneity; G-Protein coupled receptor (Mantyh, P.W. (719) 8)

Choline acetyltransferase; Septum; Diagonal band of Broca; Nucleus basalis; Alzheimer's disease (Gibbs, R.B. (720) 61)

Behavioral sensitization; Presynaptic; Dopamine; Glutamate; Substantia nigra; Basal ganglia (Garcia-Munoz, M. (720) 131)

Methylmalonic acid; Organic acidemia; Neurotoxicity; Open field; Convulsion; Seizure; Excitotoxicity; Rotational behavior (De Mello, C.F. (721) 120)

Dopamine; Stress; Nucleus accumbens; Frontal cortex; Microdialysis; Aggression; Social interaction (Tidey, J.W. (721) 140)

Dopamine; Acetylcholine; Acetylcholinesterase; Fasciculin; Physostigmine; Acetylcholinesterase inhibitor; Microdialysis; Push-pull perfusion (Dajas-Bailador, F. (722) 12)

Morphine; Dopamine metabolism; Ascorbic acid oxidation; Withdrawal; Excitotoxicity; Limbic forebrain (Desole, M.S. (723) 154)

Cerebral ischemia; Middle cerebral artery occlusion; Propentofylline; Rat (Matsumoto, K. (723) 228)

Endothelin; Dopamine; Turning behavior; 6-Hydroxydopamine; BQ788; BQ123 (Webber, K.M. (724) 180)

Acetylcholine release; Dopamine D_1 receptor; Dissociated neuron; SKF 38393 (Login, I.S. (727) 162)

6-Hydroxydopamine; L-DOPA; Fos protein; NMDA receptor; MK-801; Dopaminergic transplant; Rat (Ishida, Y. (727) 205)

REM sleep; Graft; Dopamine (Drucker-Colín, R. (729) 170)

Methamphetamine sensitization; Expression; Dopamine release; Metabotropic glutamate receptor; Microdialysis (Arai, I. (729) 277)

Dopamine receptor; Tyrosine hydroxylase; Substantia nigra; Immunohistochemistry; Electron microscopy (Caillé, I. (730) 17)

Neurodegenerative disorder; Huntington's chorea; Calcium-binding protein; Neurokinin receptor; Basal ganglia (Cicchetti, F. (730) 232)

Non-NMDA receptor; 6-Hydroxydopamine; Medial forebrain bundle; GBR 12935; Dopamine uptake complex (Zavitsanou, K. (731) 132)

Dopamine; Parkinson; L-DOPA; Motor; Putamen (Cousins, M.S. (732) 186)

Dexamethasone; Amino acid; Hippocampus; Population spike; Microdialysis; ACTH; Corticosterone (Ábrahám, I. (733) 56)

Nitric oxide; Cerebral ischemia; Microdialysis, in vivo; Nitrite; Griess reaction (Shibata, M. (734) 86)

Methamphetamine; Histamine; Histidine decarboxylase; Cortex; Diencephalon; Rat (Ito, C. (734) 98)

Somatostatin; Neuropeptide Y; NADPH-diaphorase; Nitric oxide synthase; Co-localization; Basal ganglia (Figueredo-Cardenas, G. (735) 317)

Acetylcholine release; Adenylate cyclase; Dissociated neuron; Forskolin; Supersensitivity (Login, I.S. (735) 330)

Transplant; Polymer; GDNF; Aging; Dopamine; Behavior (Emerich, D.F. (736) 99)

Monoamine oxidase; Dopamine; L-DOPA; Substantia nigra; Parkinsonism; Deprenyl; Monkey (Di Monte, D.A. (738) 53)

NMDA receptor; Stereotypy; Glutamate; Caudate-putamen (McPherson, R.J. (739) 19)

Serotonin; Stress; Feeding; Behavioral activation; Hippocampus; Amygdala; Frontal cortex (Rueter, L.E. (739) 57)

Substance P; Antidepressant; Amygdala; Substantia nigra (Shirayama, Y. (739) 70)

Excitatory amino acid; Metabotropic receptor; High affinity glutamate uptake; Glutamate release; Microdialysis, in vivo (Samuel, D. (739) 156)

Amphetamine; Microdialysis; Dopamine; DOPAC; Time course; Rat (Holson, R.R. (739) 301)

Dopamine; Monoamine; Microdialysis; Immature brain; Anoxia; Hypoxia (Nakajima, W. (740) 316)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; *N*-Methyl-4-phenylpyridine; Common marmoset; Nimodipine; Calcium; Neurotoxicity; Substantia nigra (Kupsch, A. (741) 185)

Haloperidol; Buspirone; 5-HT_{1A} receptor; c-*Fos*; Nucleus accumbens; Immunohistochemistry; Lesopitron (E-4424) (Palacios, G. (742) 141)

Adenosine receptor A_2; DMPX; SKF38393; Dopamine receptor D_1; c-Fos (Pollack, A.E. (743) 124)

Ascorbic acid; Autoxidation; Dopamine; Glutamate; L-DOPA; Neurotoxicity (Cheng, N.-n. (743) 278)

Excitatory amino acid; Neurodegenerative disease; NMDA; Receptor; Immunocytochemistry (Chen, Q. (743) 346)

Striosome
Calbindin immunohistochemistry; Freely moving rat; Matrix; Single-unit recording; Striatum (Trytek, E.S. (707) 221)

C-fos; Immediate early genes; Dopamine; Caudate nucleus; Putamen; Primate (Asin, K.E. (719) 138)

Stroke
Hippocampal slice; Hemoglobin; *N*ω-Nitro-L-arginine; Synaptic transmission; CA1 pyramidal neuron; Head injury; Cerebrovascular diseases (Yip, S. (713) 134)

CA1; Carbon monoxide; Gene expression; Heme; Hippocampus; Hypoxia; Ischemia; Ischemic tolerance; Neuronal death; Neuroprotection; Protein synthesis (Gage, A.T. (719) 172)

Cerebral ischemia; Excitotoxic amino acid; Glutamate; Phospholipase; Protein kinase (Phillis, J.W. (730) 150)

Programmed cell death; Apoptosis; Glutamate; Cycloheximide; Excitotoxicity; Propidium iodide (Kharlamov, A. (734) 1)

Strychnine
Respiratory neuron; Excitatory amino acid; Glycine; GABA; Bicuculline; Cat (Schmid, K. (710) 150)

Spinal cord; Glycine; Allodynia; Voltammetry; Locus ceruleus; Excitatory amino acid (Milne, B. (718) 198)

Styloglossus
Motoneuron; Hypoglossal; Hyoglossus; Tongue; Cholera toxin-HRP; Rat (Guo, Y. (728) 277)

S / Type 1
Myenteric neuron; Pulsed nitrogen laser; Calbindin-D_{28}; Intracellular free calcium; ATP; AH/Type 2; Dogiel type II; Enteric glia (Christofi, F.L. (725) 241)

Subarachnoid hemorrhage
Bilirubin; Heat shock protein; Heme-oxygenase; Hemoglobin; Stress protein (Matz, P. (713) 211)

Subfornical organ
Hypertonic NaCl; Supraoptic nucleus; Paraventricular hypothalamus; Osmoreception (Han, L. (708) 45)

Organum vasculosum laminae of the terminalis; Median preoptic nuceus; Cardiovascular regulation; Body fluid homeostasis (Ciriello, J. (708) 167)

Angiotensin receptor; Hypothalamus; Circumventricular organ; Adrenal gland; DUP-753; PD-123319; CGP-42112A; Domestic mallard; Drinking; Bird; Osmoregulation (Schäfer, F. (711) 118)

Paraventricular nucleus of the hypothalamus; Supraoptic nucleus; Nucleus of the solitary tract; Cardiovascular regulation; Anteroventral third ventricle; Organum vasculosum of the laminae terminalis (Hochstenbach, S.L. (713) 17)

Organum vasculosum laminae terminalis; Angiotensin II; Sodium depletion; Water intake (Rowland, N.E. (728) 90)

Subiculum
Long-term potentiation; Serotonin; Serotonin 5-HT_{1B} receptor; Glutamatergic transmission (Boeijinga, P.H. (721) 59)

Hippocampal EEG seizure; Wet dog shakes; Neuropeptide Y; Somatostatin; Dentate gyrus (Woldbye, D.P.D. (737) 162)

Seizure-like events; Late recurrent discharge; Low magnesium; Membrane-potential change; Field potential; 5-HT (Behr, J. (737) 331)

Submaxillary
Substance P; Neurokinin-1; Striatum; Parotid; Immunocytochemistry; Receptor autoradiography; Tachykinin; Receptor heterogeneity; G-Protein coupled receptor (Mantyh, P.W. (719) 8)

Submaxillary lymph node
Neuroimmunomodulation; Circadian rhythm; Sympathetic nervous system; Parasympathetic nervous system; Ornithine decarboxylase; Norepinephrine synthesis; Norepinephrine uptake; Choline uptake; Acetylcholine synthesis; Superior cervical ganglion; Chorda tympani (Cardinali, D.P. (711) 153)

Submucous ganglia
Guinea-pig; Colon; Choline acetyltransferase; NADPH-diaphorase (Wang, X.-Y. (712) 107)

Submucous plexus neuron
L-DOPA; L-DOPA methyl ester; Intracellular recording; Fast EPSP; Neurotransmitter release; Fura-2 microfluorophotometry; Intracellular calcium concentration (Hirai, K. (718) 105)

Subnucleus caudalis
Tooth pulp; Nociceptive neuron; Reticular formation; Medulla oblongata; Cat (Yokota, T. (715) 230)

Subnucleus reticularis dorsalis
Reticular formation; Subnucleus reticularis ventralis; Nociception; Medulla oblongata; Cat (Fujino, Y. (715) 225)

Subnucleus reticularis ventralis
Reticular formation; Subnucleus reticularis dorsalis; Nociception; Medulla oblongata; Cat (Fujino, Y. (715) 225)

Subpallidal area
Nucleus accumbens; Ventral tegmental area; Single unit recording; Dextran-conjugated-rhodamine tracer; Limbic-motor integration (Wu, M. (740) 151)

Subregion
Excitotoxin; Response-reinforcement; Core; Shell; Re_{50}; R_{max}; Motor activity (Johnson, P.I. (722) 109)

Substance P(1–7)
Substance P; CP-99,994; Iontophoresis; Wind-up; Nociception; Spinal cord; Rat (Budai, D. (710) 197)

Substance P
Thyrotropin-releasing hormone; Ventral raphe-spinal pathway; Lower motor neuron; Neurotrophic factor (Van den Bergh, P. (707) 206)

Circadian rhythm; Immediate early gene; Fos; Suprachiasmatic nucleus; Spantide; Retinohypothalamic tract; Light (Abe, H. (708) 135)

CP-99,994; Substance P(1–7); Iontophoresis; Wind-up; Nociception; Spinal cord; Rat (Budai, D. (710) 197)

Predatory attack behavior; Medial amygdala; Stria terminalis; Substance P (NK_1) receptor antagonist CP96,345; Cat; Hypothalamus (Han, Y. (716) 59)

Neurokinin-1; Striatum; Parotid; Submaxillary; Immunocytochemistry; Receptor autoradiography; Tachykinin; Receptor heterogeneity; G-Protein coupled receptor (Mantyh, P.W. (719) 8)

Periaqueductal gray; Raphe nucleus; Spinal trigeminal caudal subnucleus; Antinociception; Rat (Li, Y.-Q. (719) 219)

Pituitary adenylate cyclase activating polypeptide; Human; Dorsal horn; Intermediolateral cell column; Dorsal root ganglion; Calcitonin gene-related peptide (Dun, E.C. (721) 233)

Antinociception; NMDA; Opioid; Intrathecal administration; Spinal cord (Masuyama, T. (722) 200)

Calcitonin gene-related peptide; Sensory nerve sprouting; Reparative dentin; Inflammation; Steroid; Pain (Ferrari, A.M. (723) 125)

Wobbler mouse; Motoneuron disease; Spinal cord; Thyrotropin releasing hormone; Serotonin; Receptor; Quantitative autoradiography (Deng, Y.-P. (725) 49)

Haloperidol; Stereotypy; Enkephalin; Somatostatin; Dynorphin (Marin, C. (731) 57)

Tachykinin; Opioid; *p*-Chlorophenylalanine; Basal ganglia; 5-HT_2 receptor; 5-HT_{1A} receptor (Walker, P.D. (732) 25)

Hypoxia; Rat; Neuropeptide Y; Radioimmunoassay; Chemoreflex (Poncet, L. (733) 64)

Ageing; Microvasculature; Amyloid peptide; Endothelin (Khalil, Z. (736) 206)

Glutamate; *N*-Methyl-D-aspartate; Tachykinin; Slow excitatory transmission; Dorsal root stimulation; Nociception; Wind-up (Baranauskas, G. (738) 329)

Antidepressant; Amygdala; Striatum; Substantia nigra (Shirayama, Y. (739) 70)

Dorsal root ganglion; ATP receptor; Whole-cell patch-clamp technique; Modulation (Hu, H.-Z. (739) 163)

Tachykinin; Neurokinin receptor; Nociception; Hyperalgesia; Inflammation; Flexion reflex; Spinal cord hyperexcitability (Parsons, A.M. (739) 263)

Kainic acid; Neurokinin; Neostriatum; Neuroprotection; Rat; Choline acetyltransferase activity; Acetylcholinesterase (Calvo, N. (740) 323)

Tachykinin receptor; Immunofluorescence; Confocal microscopy; Proprioception (McGonigle, D.J. (742) 1)

Substance P (NK_1) receptor antagonist CP96,345
Predatory attack behavior; Medial amygdala; Stria terminalis; Substance P; Cat; Hypothalamus (Han, Y. (716) 59)

Substance P receptor
Trigeminothalamic tract; Spinothalamic tract; Nociception; Trigeminal nuclei; Spinal cord; Thalamus; Rat (Li, J.-L. (719) 207)

Substantia innominata
Brain stimulation reward; Basal forebrain; Immediate early genes; Medial forebrain bundle; Lateral preoptic area (Arvanitogiannis, A. (720) 148)

Substantia nigra
Parkinson's disease; Dopamine receptor; Striatum; Nigrostriatal (F. Piercey, M. (706) 249)

Rotational behavior; Striatum; High-affinity dopamine uptake; Mazindol binding; Parkinson's disease (Jones, B.E. (709) 275)

Brain-derived neurotrophic factor; Norepinephrine; Dopamine; Serotonin; Raphe nucleus; Periaqueductal gray; Hippocampus; Cortex; Nucleus accumbens; Hypothalamus (Siuciak, J.A. (710) 11)

Behavioral sensitization; Presynaptic; Dopamine; Glutamate; Striatum; Basal ganglia (Garcia-Munoz, M. (720) 131)

Serotonin; Deep piriform cortex; Bicuculline; Seizure; γ-Aminobutyric acid (Pasini, A. (724) 84)

N-Methyl-D-aspartate; 3-(2-Carboxypiperazine-4-yl)propyl-1-phosphonic acid; Kindling; Caudate-putamen; Amygdala; Thalamus; Cerebral cortex (Osonoe, M. (728) 242)

Dopamine receptor; Tyrosine hydroxylase; Striatum; Immunohistochemistry; Electron microscopy (Caillé, I. (730) 17)

Cannabinoid; Striatonigral; Iontophoresis; Local drug delivery; 2-Hydroxypropyl-β-cyclodextrin; γ-Aminobutyric acid inhibition (Tersigni, T.J. (733) 184)

Iron; 6-Hydroxydopamine; Parkinson's disease; Rat (He, Y. (735) 149)

Monoamine oxidase; Dopamine; L-DOPA; Striatum; Parkinsonism; Deprenyl; Monkey (Di Monte, D.A. (738) 53)

Substance P; Antidepressant; Amygdala; Striatum (Shirayama, Y. (739) 70)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; *N*-Methyl-4-phenylpyridine; Common marmoset; Nimodipine; Calcium; Neurotoxicity; Striatum (Kupsch, A. (741) 185)

Medial preoptic area; Oxytocin; Paraventricular nucleus; Sexual dimorphism (Dubois-Dauphin, M. (743) 32)

γ-Aminobutyric acid; Immunohistochemistry; Middle cerebral artery occlusion; *N*-methyl-D-aspartate receptor (Yamada, K. (743) 233)

Substantia nigra neuropathology
Methamphetamine; Dopaminergic neurotoxicity; Nigral cell loss; Mice; Animal model of Parkinson's disease; MPTP (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine) (Sonsalla, P.K. (738) 172)

Substantia nigra pars reticulata
D_2 dopamine receptor; Quinpirole; EEDQ; Pertussis toxin; Iontophoresis; Extracellular single unit recording (Martin, L.P. (729) 156)

Subtype
Monoclonal antibody; Astrocyte; Glial fibrillary acidic protein; Retina; Mouse brain (Kobayashi, K. (740) 57)

Subventricular zone
Precursor cell; Proliferation; GFAP; [^{3}H]Thymidine; Migration; Lesion (Weinstein, D.E. (743) 11)

Succinate dehydrogenase activity
Soma size; Dorsal root ganglion; Rat; Cat (Ishihara, A. (716) 183)

Succinate-ubiquinone oxidoreductase
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); 1-Methyl-4-phenylpyridine (MPP^+); Neurotoxicity; NADH-ubiquinone oxidoreductase; Ubiquinol-cytochrome *c* reductase; Cytochrome *c* oxidase (Desai, V.G. (715) 1)

Succinylcholine effect
Primary muscle spindle afferent; Fusimotor effect (Schäfer, S.S. (709) 111)

Suckling
Rat; Maternal deprivation; Development; Hippocampus; Glucocorticoid receptor; Mineralocorticoid receptor; Gene expression (Vázquez, D.M. (731) 79)

Sucrose
Opioid; Fat; Highly palatable diet; Opioid peptide; Opioid mRNA (Welch, C.C. (721) 126)

Area postrema; Hypertonic NaCl solution; Hypovolemia; Thirst; Water intake (Curtis, K.S. (726) 31)

Taste; Mixture; Chorda tympani; Hamster; Quinine (Formaker, B.K. (727) 79)

Sucrose fading
Alcohol; Frontal lobe; Prefrontal cortex; Frontal cortex brain lesion; Serotonin; Dopamine; Nucleus accumbens; Raphe; Biological basis of reinforcement (Deckel, A.W. (723) 70)

Suicide transport
Acetylcholine; Hybridization, in situ; Muscarinic receptor; Neostriatum; Volkensin (Harrison, M.B. (734) 323)

Sulfonylurea receptor
Diet-induced obesity; Diet-resistant; ATP-sensitive K^+ channel; Glucose; Diabetes (Levin, B.E. (739) 293)

Sulpiride
Voltammetry; Mesocorticolimbic dopamine; Infralimbic cortex; SCH 23390; SKF 38393; Quinpirole; GBR 12909 (Doherty, M.D. (715) 86)

CTA; D1; D2; SCH 23390; Visceral distress; Taste; Rat (Caulliez, R. (729) 234)

(−)-Sulpiride
Corticosteroid receptor; C57BL/6; DBA/2; Hippocampus; LY 171555; Passive avoidance; SKF 38393; SCH 23390 (Cabib, S. (729) 110)

Cocaine; Conditioned locomotion; SCH 23390; MK-801; DNQX; Rat (Cervo, L. (731) 31)

Superfusion
Brain-derived neurotrophic factor; Release; Synaptosome; Slice; Veratridine; Cortex; Hippocampus (Androutsellis-Theotokis, A. (743) 40)

Superior cervical ganglia
Interleukin-6 mRNA; Interleukin-6 receptor mRNA; Dorsal root ganglia; Reverse transcription–polymerase chain reaction; In situ hybridization (Gadient, R.A. (724) 41)

Superior cervical ganglion
Neuroimmunomodulation; Circadian rhythm; Sympathetic nervous system; Parasympathetic nervous system; Submaxillary lymph node; Ornithine decarboxylase; Norepinephrine synthesis; Norepinephrine uptake; Choline uptake; Acetylcholine synthesis; Chorda tympani (Cardinali, D.P. (711) 153)

Neurogenesis; Development; Neurotrophin; Neurotropic; Transgenic mouse (Davis, B.M. (724) 47)

Superior cervical ganglionectomy
Hemicholinium-3 binding; Choline acetyltransferase; Muscarinic receptor; Tyrosine hydroxylase; Septum; Hippocampus; Developmental lead-exposure; Fimbria-fornix transection (Bielarczyk, H. (708) 108)

Superior colliculus
Amino acid; Glutamate; Lesion; γ-Glutamyl dipeptide; Optic nerve (Li, X. (706) 89)

Correlation; Ipsilateral projection; Lateral geniculate nucleus; Double-labeling; Fluorescent tracer; Albino rat (Farid Ahmed, A.K.M. (706) 163)

Periaqueductal gray matter; Defensive reaction; Endogenous opioid (Coimbra, N.C. (736) 348)

Parabigeminal nucleus; Ferret; Visual processing; Topographical projection; Horseradish peroxidase; Fluorescent microsphere (Jiang, Z.D. (743) 217)

Superior vestibular nucleus
Adaptation; Cross axis; Medial vestibular nucleus; Motor learning; Plasticity; Single unit; Vestibulo-ocular reflex (Quinn, K.J. (718) 176)

Superoxide dismutase
Oxygen free radical; Ischemia; Excitotoxicity; Huntington's disease; Neurodegeneration; Basal ganglia (Medina, L. (708) 59)

Methamphetamine; Transgenic mouse; Superoxide radical; Dopamine uptake site; Striatum; Gender (Hirata, H. (714) 95)

Hypoxic pretreatment; Hypoxic tolerance; Delayed neuronal death; Rat; Hippocampus (Gorgias, N. (714) 215)

Superoxide radical
Methamphetamine; Transgenic mouse; Superoxide dismutase; Dopamine uptake site; Striatum; Gender (Hirata, H. (714) 95)

Reduction potential; Electron affinity; Rat brain microsomes; Redox cycling of xenobiotics; NADPH-cytochrome *P*-450 reductase; Quinone; Nitroheterocycle; Bipyridinium; Brain ageing; Neurodegeneration (Livertoux, M.-H. (725) 207)

Supersensitivity
Acetylcholine release; Adenylate cyclase; Dissociated neuron; Forskolin; Striatum (Login, I.S. (735) 330)

Supplementary motor area
Motor cortex; Basal ganglia; Globus pallidus; Thalamus; Monkey (Kayahara, T. (706) 337)

Suprachiasmatic
Acetylcholine; Atropine; Carbachol; Circadian rhythm; Entrainment; Mecamylamine; Phase–response curve (Bina, K.G. (743) 202)

Suprachiasmatic nuclei
Food anticipation; Circadian rhythm; Food restriction; Entrainment; Time discrimination (Mistlberger, R.E. (739) 12)

Circadian system; Photic responsiveness; Entrainment; Neurophysiology; Visual system (Meijer, J.H. (741) 352)

Suprachiasmatic nucleus
Gap junction; Neuron; Astrocyte; Cell culture; Circadian rhythm (Welsh, D.K. (706) 30)

Circadian rhythm; Immediate early gene; Fos; Substance P; Spantide; Retinohypothalamic tract; Light (Abe, H. (708) 135)

Chronobiology; Circadian rhythm; Light; Melatonin; Pineal gland (Hätönen, T. (710) 125)

Alzheimer's disease; Melatonin; Circadian rhythm; Sleep–wake cycle; Delirium; Pineal gland; Light–dark cycle (Uchida, K. (717) 154)

Human hypothalamus; Vasoactive intestinal polypeptide; Vasopressin; Circadian rhythm (Hofman, M.A. (722) 78)

Arginine-vasopressin; Neuropeptide Y; Strain difference; Rat (Wollnik, F. (724) 191)

Excitotoxicity; Hippocampus; Infrared videomicroscopy; Kainate; *N*-Methyl-D-aspartate; Neostriatum (Colwell, C.S. (724) 205)

Lateral geniculate nucleus; Intergeniculate leaflet; Geniculohypothalamic tract; Circadian rhythm; Neuropeptide Y; Cat (Pu, M. (725) 247)

Circadian rhythm; Photoperiod; c-*fos*; Pineal; Melatonin; Rat (Sumová, A. (725) 281)

Circadian rhythm; Entrainment; Immediate early gene; FluoroGold (Peters, R.V. (728) 231)

Circadian rhythm; Intergeniculate leaflet; Constant light; Fos immunoreactivity (Edelstein, K. (731) 221)

Circadian rhythm; *junB*; Gene expression; Immediate-early gene; Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (732) 215)

Calretinin; Oxytocin; Vasopressin; Supraoptic nucleus; Paraventricular nucleus; Anterior commissural nucleus (Arai, R. (735) 154)

Circadian rhythm; *Tau* mutant hamster; Vasopressin; Vasoactive intestinal peptide; Locomotor behavior (Scarbrough, K. (736) 251)

Circadian rhythm; *fosB*; c-*fos*; Gene expression; Immediate-early gene; Light; Entrainment; Transcription regulation (Guido, M.E. (739) 132)

Circannual rhythm; Rat; Pinealectomy; Ganglionectomy; Thyroidectomy; Morphometric analysis (Peschke, E. (740) 81)

Circadian rhythm; Methamphetamine; NAN-190; 5-HT_{1A} receptor; Serotonin (Moriya, T. (740) 261)

Adenosine; Circadian rhythm; Phase shift; Retinohypothalamic tract; Fos (Watanabe, A. (740) 329)

Retinohypothalamic tract; Visual system; Congenic rat; Albino (Miller, A.M. (741) 348)

Glutamic acid decarboxylase; Preoptic area; Sexual dimorphism; Human GABA (Gao, B. (742) 163)

Vasopressin; Vasoactive intestinal polypeptide; Microwave; Antigen retrieval; Morphometry (Zhou, J.-N. (742) 334)

Hybridization, in situ; Paraventricular nucleus; Perifornical area; Supraoptic nucleus; Thyroid; Human brain (Guldenaar, S.E.F. (743) 93)

Suprachiasmatic nucleus, activity
Serotonin; Nonphotic; 5,7-Dihydroxytryptamine (Bobrzynska, K.J. (741) 205)

Supraoptic nucleus
Hypertonic NaCl; Subfornical organ; Paraventricular hypothalamus; Osmoreception (Han, L. (708) 45)

Paraventricular nucleus of the hypothalamus; Nucleus of the solitary tract; Cardiovascular regulation; Subfornical organ; Anteroventral third ventricle; Organum vasculosum of the laminae terminalis (Hochstenbach, S.L. (713) 17)

c-Fos; Immunocytochemistry; Equithesin (Xiong, J.-J. (719) 143)

Paraventricular nucleus; HPA axis; Hypothalamic-neurohypophysial system (Wotjak, C.T. (726) 237)

Hyperosmotic stress; Hypothalamo-neurohypophysial system; Hypophysial stalk transection; Vasopressin; Polydipsia (Huang, Y.-S. (732) 95)

Calretinin; Oxytocin; Vasopressin; Paraventricular nucleus; Anterior commissural nucleus; Suprachiasmatic nucleus (Arai, R. (735) 154)

FOS immunoreactivity; Paraventricular nucleus; Caudate putamen; Desensitization (Chang, S.L. (736) 227)

Hybridization, in situ; Paraventricular nucleus; Perifornical area; Suprachiasmatic nucleus; Thyroid; Human brain (Guldenaar, S.E.F. (743) 93)

Sural nerve
Human gait; Reflex gain; Exteroceptive reflex; Medial gastrocnemius; Lateral gastrocnemius; Biceps femoris (Duysens, J. (727) 230)

Suramin
Calcium; Calpain; Dorsal root ganglia; Neurite outgrowth; Neurotoxicity (Sun, X. (742) 149)

Survival
Heat-shock; Stress protein; Neuroprotection; Antisense oligonucleotide; Cultured neuron (Sato, K. (740) 117)

Swim test
Locus coeruleus; Selective breeding; Animal model of depression; Norepinephrine; Dopamine (Scott, P.A. (725) 217)

SYM2081
GluR6; NBQX; Kainate; Toxicity (Carver, J.M. (720) 69)

Sympathetic
Nerve growth factor; Sprouting; Hippocampus; Septal lesion; Section culture; Basal forebrain; Rat (Tian, X. (725) 111)

Blood pressure; Phrenic; Respiration; MK-801; Hypoxia (Miyawaki, T. (726) 64)

Aging; Transplantation; Sensory; Cerebral blood vessel; Extracellular matrix; Autonomic (Gavazzi, I. (734) 167)

Sympathetic activity
Heart failure; Nitric oxide synthase; Gene expression; Hypothalamus; Brainstem (Patel, K.P. (734) 109)

Sympathetic ingrowth
Muscarinic receptor; Medial septum; Hippocampus; Lesion; Protein kinase C; PKC activity; Plasticity (Ayyagari, P.V. (708) 205)

Sympathetic nerve
Axonal reticulum; Axonal transport; Small synaptic vesicle; Synaptophysin; Large dense-core vesicle (Quatacker, J. (731) 101)

Spleen; Ventromedial hypothalamus; Mitogenic response; Glucocorticoid; Lymphocyte (Okamoto, S. (739) 308)

Sympathetic nervous system
Starvation; Hypothalamus; Heart; Norepinephrine; Rat (Gotoh, M. (706) 351)

Neuroimmunomodulation; Circadian rhythm; Parasympathetic nervous system; Submaxillary lymph node; Ornithine decarboxylase; Norepinephrine synthesis; Norepinephrine uptake; Choline uptake; Acetylcholine synthesis; Superior cervical ganglion; Chorda tympani (Cardinali, D.P. (711) 153)

Labyrinth; Cardiovascular; Blood pressure; Reticular formation (Steinbacher Jr., B.C. (720) 204)

Sympathetic neuron
Interleukin-6 receptor; Gp 130; c-*fos*; Reverse transcriptase–polymerase chain reaction; Hybridization, in situ; PC12 cell; Tumor necrosis factor α; Glucocorticoid; Differentiation (März, P. (706) 71)

Trauma; Axotomy; Calcium; Neurotoxicity; Calcium channel; Confocal microscopy (Sattler, R. (719) 239)

Presynaptic nicotinic receptor; Intraterminal calcium; Noradrenaline release; Calcium channel (Doležal, V. (740) 75)

Sympathetic preganglionic neuron
Nitric oxide; Tyrosine hydroxylase; Spinal cord (Smithson, I.L. (723) 218)

Sympathetic preganglionic neuron (SPN), visually identified
1,1′-Dioctadecyl-3,3,3′,3′-tetramethylindocarbocyanine perchlorate (DiI); Whole-cell slice patch delayed rectifier current; Ca^{2+}-dependent current; A-current; Inward rectifying current (Miyazaki, T. (743) 1)

Sympatho-inhibition
C-fiber; Cardiopulmonary receptor; Amino acid receptor; Phosphonovaleric acid; Bradycardia (Chianca Jr., D.A. (718) 185)

Synapse
Prefrontal cortex; Thalamus; Ultrastructure; Golgi-EM; Anterograde degeneration (Kuroda, M. (708) 185)

Phosphorylation; Tyrosine; Phosphatase; Denervation; Neuromuscular; Synaptogenesis (Tanowitz, M. (712) 299)

Neurocalcin; Calcium-binding protein; Alzheimer's disease; Brain; Synaptophysin (Shimohama, S. (716) 233)

Limbic system; Monoclonal antibody; Regional specificity; Immunohistochemistry; Western blot; Hippocampus (Fukuyama, R. (719) 194)

Cortical circuit; Autonomic function; Limbic system (Bacon, S.J. (720) 211)

γ-Aminobutyric acid; Neurotensin; Rat; Double immunostaining; Preembedding; Postembedding (Wang, Q.-P. (730) 118)

Neurokinin B; Nucleus tractus solitarii; Dorsal nucleus of the vagus nerve; Area postrema (Carpentier, C. (734) 327)

Synapse density
Cerebral ischaemia; Hippocampus; Chick; Disector (Horner, C.H. (735) 354)

Synapse elimination
Visual cortex; NMDA receptor; Visual deprivation; Cat; Contrast–response curve (Czepita, D. (728) 7)

Synapsin I
Rab3a; Synaptophysin; Peptide; Immunofluorescence; Rat peripheral nervous system (Li, J.-Y. (706) 103)

Synaptic activity
Parallel fiber; Cerebral blood flow; Glutamate; Nitric oxide; Metabolic regulation; Laser-Doppler flowmetry (Akgören, N. (710) 204)

Synaptic activity, prolonged
Ganglion cell; Opiate receptor-mediated response; Met-enkephalin response; Stimulus train (Zhang, C. (710) 1)

Synaptic depression
Frog neuromuscular junction; Niflumic acid; Non-steroidal antiinflammatory drug; Potassium current; Calcium current; Presynaptic current; Acetylcholine; Quantal transmitter release (Miralles, F. (714) 192)

Synaptic junction
Rat; Transplantation; Spinal cord; Noradrenaline (Giménez y Ribotta, M. (707) 245)

Synaptic mitochondrion
Aging; Protein carbonyl; Complex I; Complex IV (Martinez, M. (731) 246)

Synaptic modulation
Basic fibroblast growth factor; Synaptic transmission; Intracellular calcium oscillation; GABAergic system (Tanaka, T. (723) 190)

Synaptic organization
Calbindin; Calretinin; Cuneate nucleus; Gracile nucleus; Parvalbumin; Somatosensory (Crockett, D.P. (707) 31)

Synaptic pathology
NACP; NAC; Dot-blot; Early Alzheimer's disease neurodegeneration; Synaptic protein; Synuclein (Iwai, A. (720) 230)

Synaptic plasticity
Cone pedicle; Horizontal cell; Dopamine; Nucleolus-like body; Light- and dark-adaptation; Efferent fiber (De Juan, J. (707) 213)

Benzodiazepine; Chlordiazepoxide; Flumazenil; Medial septum; Hippocampus; Dentate gyrus; Field potential; Long-term potentiation (Stackman, R.W. (717) 12)

Visual cortex; Glutamate; Noradrenaline; Calcium; Imaging; Synergy; Nonlinear interaction (Yang, B. (721) 181)

Acetylcholinesterase; Hippocampus; Ischemia; Muscarinic receptor (Huang, Y.-L. (722) 195)

Long-term potentiation; Long-term depression; Seizure; Hippocampus (Abraham, W.C. (722) 217)

N-Methyl-D-aspartate (NMDA) receptor; Long-term potentiation; Depotentiation; FK506; Calcineurin; Cyclosporin A; Hippocampus (Lu, Y.-F. (729) 142)

Motor cortex; Restoration of function; Motor learning; Layer V; Stereology; Forelimb behavior (Jones, T.A. (733) 142)

Mineralocorticoid receptor; Glucocorticoid receptor; Aldosterone; Corticosterone; Long-term potentiation; CA1 (Pavlides, C. (738) 229)

Striate cortex; Lateral geniculate nucleus; Adrenergic receptor; Development; Noradrenaline (Muguruma, K. (740) 131)

Synaptic potentiation
Long-term potentiation; Fimbria; Lateral septum; CA3; Rat (Garcia, R. (737) 169)

Synaptic protein
NACP; NAC; Dot-blot; Synaptic pathology; Early Alzheimer's disease neurodegeneration; Synuclein (Iwai, A. (720) 230)

Synaptic response
N-Methyl-D-aspartate; NBQX; Retinal ganglion; KA/AMPA receptor (Yu, W. (709) 184)

Synaptic stripping
Microglia; Cellular swelling; Immunoreactivity; B-50/GAP-43; Side effect (Ulenkate, H.J.L.M. (717) 29)

Synaptic terminal
Calcium ATPase; Synaptic vesicle; Edinger-Westphal; Calyx; Cholinergic (Fujii, J.T. (734) 193)

Neurosecretion; Exocytosis (Stuenkel, E.L. (742) 129)

Synaptic transmission
Aging; Glucose; Hippocampus; Ion transport; Brain slice (Roberts Jr., E.L. (708) 16)

Hippocampal slice; Hemoglobin; *N*ω-Nitro-L-arginine; CA1 pyramidal neuron; Stroke; Head injury; Cerebrovascular diseases (Yip, S. (713) 134)

Anesthetic; Identified neuron; FMRFamide; Cell culture; *Lymnaea stagnalis* (Spencer, G.E. (714) 38)

Frog labyrinth; Endolymph; Clofilium; Transepithelial potential; K secretion; Information coding (Rossi, M.L. (721) 174)

Basic fibroblast growth factor; Synaptic modulation; Intracellular calcium oscillation; GABAergic system (Tanaka, T. (723) 190)

Neuromuscular junction; Nitric oxide; Cholinergic transmission; Skeletal muscle; Ocular muscle; Acetylcholine receptor (Kusner, L.L. (730) 238)

Hyperthermia; Hippocampus; CA1; CA3; LTP; Kindling; Rat (Minamiura, Y. (732) 209)

Glutamate receptor; Neural plasticity; Visual cortex; Nerve block; Sensory deprivation (Yoshimura, H. (733) 108)

Brain slice; Hippocampus; CA1; $GABA_B$; Receptor; Presynaptic; Cerebrolysin (Xiong, H. (737) 188)

Synaptic vesicle
Rat; Hippocampus; Acetylcholine; Choline-*O*-acetyltransferase; Acetylcholinesterase; Cytosol; Vesamicol (Carroll, P.T. (725) 3)

Quantum; Miniature endplate current; Acetylcholine; Monoethylcholine; Endplate (Naves, L.A. (730) 58)

Calcium ATPase; Synaptic terminal; Edinger-Westphal; Calyx; Cholinergic (Fujii, J.T. (734) 193)

Synaptogenesis
Phosphorylation; Tyrosine; Phosphatase; Denervation; Neuromuscular; Synapse (Tanowitz, M. (712) 299)

Differentiation; Neural crest; Tyrosine hydroxylase; *N*-Methyl-D-aspartate; Glutamate; Receptor; Gut (Burns, G.A. (718) 117)

Synaptophysin
Rab3a; Synapsin I; Peptide; Immunofluorescence; Rat peripheral nervous system (Li, J.-Y. (706) 103)

Neurocalcin; Calcium-binding protein; Alzheimer's disease; Brain; Synapse (Shimohama, S. (716) 233)

Axonal reticulum; Axonal transport; Sympathetic nerve; Small synaptic vesicle; Large dense-core vesicle (Quatacker, J. (731) 101)

Nerve growth factor; Visual cortex; GAP-43; Plasticity; Neurotrophin (Liu, Y. (732) 36)

Synaptosome
Regulation of glycolysis; Energy production; Hexokinase; C6 cell (Erecińska, M. (726) 153)

D-Fenfluramine; Neurotoxicity; Serotonin uptake carrier; Serotonin release; Rat brain (Gobbi, M. (730) 165)

Cerebral ischemia; Microsphere embolism; Calcium ion influx; Noradrenaline release; Noradrenaline uptake; Rat (Hayashi, H. (737) 64)

Rat striatum; Slice; Arachidonic acid; GABA uptake; GABA release (Chéramy, A. (742) 185)

Brain-derived neurotrophic factor; Release; Slice; Superfusion; Veratridine; Cortex; Hippocampus (Androutsellis-Theotokis, A. (743) 40)

Synchronization
Opiate; Intracellular Ca^{2+}; Fura-2; Synergy; Differentiation (Sarne, Y. (722) 203)

Hippocampus; K^+-channel blocker; K^+ concentration increase; Excitatory amino acid (Avoli, M. (735) 188)

Synergy
Visual cortex; Glutamate; Noradrenaline; Synaptic plasticity; Calcium; Imaging; Nonlinear interaction (Yang, B. (721) 181)

Opiate; Intracellular Ca^{2+}; Fura-2; Differentiation; Synchronization (Sarne, Y. (722) 203)

Syntaxin
Neurite sprouting; Nerve cell culture; HPC-1; Antisense oligonucleotide; Dorsal root ganglion neuron; Retinal ganglion cell (Yamaguchi, K. (740) 185)

Synthesis
Heat shock; Intracellular pH; Alkalosis; Monensin; HSP; C6 glioma (Neuhaus-Steinmetz, U. (724) 16)

Synuclein
NACP; NAC; Dot-blot; Synaptic pathology; Early Alzheimer's disease neurodegeneration; Synaptic protein (Iwai, A. (720) 230)

Syringomyelia
Spinal cord; Central canal; Perivascular space; Cerebrospinal fluid; Horseradish peroxidase (Stoodley, M.A. (707) 155)

System x_c^-
Gliotoxin; Uptake; Glutamate; Excitotoxin; Quisqualate (Tsai, M.J. (741) 166)

T

T3
Estrogen; Pituitary D-2 receptor; Prolactin; Thyroxine; Thyrotrophin; cAMP (Nedvídková, J. (712) 148)

Tachykinin
Dynorphin(1–8); Nociception; Antinociception; Thermal stimulation; Spinal cord (Zachariou, V. (706) 80)

Dorsal root ganglion; Potassium current; NK_1 receptor; M-Current; G-Protein (Akasu, T. (713) 160)

Atrioventricular conduction; Cardiac rate; Glutamate; Immunocytochemistry; Histochemistry; Nucleus ambiguus; Retrograde transport; Vagus nerve (Massari, V.J. (715) 197)

Substance P; Neurokinin-1; Striatum; Parotid; Submaxillary; Immunocytochemistry; Receptor autoradiography; Receptor heterogeneity; G-Protein coupled receptor (Mantyh, P.W. (719) 8)

Substance P; Opioid; *p*-Chlorophenylalanine; Basal ganglia; $5\text{-}HT_2$ receptor; $5\text{-}HT_{1A}$ receptor (Walker, P.D. (732) 25)

Mechanical allodynia; Mechanical hyperalgesia; CP-99,994-1; NK1 antagonist (Carlton, S.M. (734) 103)

Met-enkephalin; Analgesia; Pain; Antinociception; Naltrindole (Zachariou, V. (736) 305)

Substance P; Glutamate; *N*-Methyl-D-aspartate; Slow excitatory transmission; Dorsal root stimulation; Nociception; Wind-up (Baranauskas, G. (738) 329)

Neurokinin receptor; Nociception; Hyperalgesia; Inflammation; Substance P; Flexion reflex; Spinal cord hyperexcitability (Parsons, A.M. (739) 263)

Neuropeptide; Radioimmunoassay; High performance liquid chromatography; Nervous system, insect; Brain; Intestine (Muren, J.E. (739) 314)

NK-3 receptor; Antidiuretic action; Paraventricular nucleus; Vasopressin V2 receptor; Senktide (Eguchi, T. (743) 49)

Tachykinin receptor
Substance P; Immunofluorescence; Confocal microscopy; Proprioception (McGonigle, D.J. (742) 1)

Tacrine
In vitro ACh release; Cortical synaptosome; Atropine; AF-DX 116; Pirenzepine; Muscarinic receptor (Svensson, A.-L. (726) 207)

Tactile stimulation
Paraventricular nucleus; Oxytocin cell; Dorsal penile nerve; Electrical stimulation; Castration; Rat (Yanagimoto, M. (733) 292)

Tadpole
Protein kinase A; Forskolin; diB-cAMP; Sp-cAMPS; Macropatch; Miniature end-plate current; *Bufo marinus* (Quiñonez, M. (737) 327)

TAG-1
Axon; GPI-anchored protein; Membrane (Harel, R. (712) 345)

Tail flick
Non-steroidal antiinflammatory drug; Dipyrone; Naloxone; Opiates; Periaqueductal gray; Off-cell; On-cell; Antinociception (Tortorici, V. (725) 106)

Tail flick assay
Intrathecal; NMDA receptor/glycine site; Non-NMDA receptor; Antinociception; Formalin test (Lutfy, K. (743) 17)

Tailflick latency
Nociception; Pain sensitivity; Steroid hormone; Progestin; Membrane mechanism; Non-genomic; γ-Aminobutyric acid; Lordosis (Frye, C.A. (709) 1)

Tail flick test
Pain; Calmodulin inhibitor; Spinal analgesia; Central hyperalgesia; Formalin test; Rotarod test; Rat (Menendez, L. (731) 114)

Taste
Fos immunohistochemistry; Chemotopy; Nucleus of the solitary tract (Harrer, M.I. (711) 125)

Brainstem; Appetite; Palatability; Food intake; Feeding; Benzodiazepine; Hyperphagia; Diazepam; Cerebral ventricle; Hindbrain; Anxiolytic (Peciña, S. (727) 22)

Mixture; Chorda tympani; Hamster; Quinine; Sucrose (Formaker, B.K. (727) 79)

CTA; D1; D2; SCH 23390; Sulpiride; Visceral distress; Rat (Caulliez, R. (729) 234)

Gustatory; Anatomy; DiI; Biotinylated dextran; Nucleus tractus solitarius; Projection neuron (Williams, J.B. (737) 231)

Macaque; Monkey; Amygdala; Satiety; Flavor (Yan, J. (740) 193)

Taste cell
Bullfrog; Patch-clamp; Sodium-dependent potassium channel; Apical membrane; Transduction (Miyamoto, T. (715) 79)

Tau
Human neuroblastoma culture; Alzheimer's disease; Neurofibrillary degeneration; Paired helical filament; Phosphorylation (Ko, L.-w. (707) 256)

***Tau* mutant hamster**
Circadian rhythm; Suprachiasmatic nucleus; Vasopressin; Vasoactive intestinal peptide; Locomotor behavior (Scarbrough, K. (736) 251)

Tau protein
Cyclin; Cyclin-dependent kinase; Plasticity; Cell cycle; Development (Matsushita, M. (734) 319)

Tau protein kinase I
Glycogen synthase kinase-3β; Alzheimer's disease (Shiurba, R.A. (737) 119)

Taurine
Choroid plexus; Hypo-osmotic stress; Volume regulation; Calmodulin antagonist; Niflumic acid (Keep, R.F. (715) 17)

Cerebral ischemia; Middle cerebral artery occlusion; Microdialysis; Excitatory amino acids; Rat (Herz, R.C.G. (715) 163)

Astrocyte; Volume regulation; Methylmercury; Sodium; Potassium (Vitarella, D. (732) 169)

Ethanol; Nucleus accumbens; Glutamate; γ-Aminobutyric acid; Microdialysis (Dahchour, A. (735) 9)

Methylmercury; Astrocyte; Metallothionein; Regulatory volume decrease; Hypotonicity (Vitarella, D. (738) 213)

TBOB binding
Convulsion, picrotoxin-induced; Picrotoxin; Sex difference; Gonadal hormone; Rat (Peričić, D. (736) 174)

Tectum
Reticular formation; Visual input; Locomotion; Lamprey (Zompa, I.C. (718) 221)

Teeth
Periodontal ligament; Mechanoreceptor; Reflex; Jaw muscle; Masticatory system (Louca, C. (731) 63)

Teleost
Retina; Proliferation; Cell distribution; Rod progenitor (Kwan, J.W. (712) 40)

Nerve fiber; Axon; Tooth germ; Tooth pulp; Neuropeptide; Immunohistochemistry (Tuisku, F. (729) 137)

Teleostei
Thalamus; Retrograde tracing; Anterograde tracing; Biocytin; Dextran-tetramethylrhodamine; Gymnotiformes (Zupanc, G.K.H. (739) 201)

Temperature
Insect; Locust; Flight; Motor pattern; Membrane potential; PSP amplitude (Xu, H. (734) 213)

Temperature dependency
Amiloride sensitivity; Sodium taste receptor; Mouse strain difference; NaCl preference; Chorda tympani nerve (Ninomiya, Y. (708) 153)

Temperature increase
Tonic inhibition; Metabolic heat production; Interscapular brown adipose tissue; Procaine; Propranolol; Indomethacin (Shibata, M. (716) 171)

Template matching
Single unit recording; Action potential shape; Propagation block; Human peripheral nerve; Concentric needle electrode; Microneurography (Wu, G. (742) 225)

Temporal frequency
Area 21a; Spatial frequency; Contrast sensitivity; Extrastriate cortex; Vision; Cat (Tardif, E. (716) 219)

Temporal summation
Laser; Thermode; Electrical; Human; Hyperalgesia (Arendt-Nielsen, L. (712) 165)

Temporal tuning
Lateral geniculate nucleus; Cortical modulation (Marrocco, R.T. (737) 110)

Tenascin
bFGF; Laminin; Hemitransection; Rat brain; Hybridization, in situ; mRNA (Lippoldt, A. (730) 1)

Tendon jerk reflex
Human gait; Proprioceptive reflex; Biceps femoris; Phase-dependent reflex modulation (Van de Crommert, H.W.A.A. (734) 341)

Tenia tecta
Serotonin; Interneuron; Dentate gyrus; Septum; Amygdala (Morales, M. (731) 199)

Terminal transferase
Apoptosis; DNA fragmentation; Olidodendroglial cell; Neuroglial cell; Lectin histochemistry; Hypomyelination (Vela, J.M. (712) 134)

Test experience
Spatial learning (Boehm, G.W. (726) 11)

Testosterone
Singing; HVC; Gap-junction; Canary; Plasticity (Gahr, M. (712) 69)

VMH; Receptor autoradiography; CCK_B-R; Estrogen; Sex difference (Popper, P. (712) 335)

Ventral striatum; Olfactory tubercle; Gonadotropin; Reproduction; Olfactory pathway (Gomez, D.M. (723) 148)

Sexually dimorphic nucleus of the preoptic area; Medial preoptic nucleus; Apoptosis; Sexual differentiation; Rat (Davis, E.C. (734) 10)

Testosterone cypionate
Anabolic steroid; Radial-arm maze; Delayed non-match-to-sample; 17α-Methyltestosterone; Methandrostenolone (Smith, S.T. (737) 313)

Tetanus toxin
Dye coupling; Dendritic shrinkage; Hippocampus; Epilepsy; Morphology; Biocytin (Colling, S.B. (741) 38)

Tetraethylammonium
Depolarizing postsynaptic potential; Dopamine; 4-Aminopyridine; Cesium (Altemus, K.L. (718) 212)

Spinal cord injury; Axon; Potassium channel; 4-Aminopyridine (Fehlings, M.G. (736) 135)

Tetrahydrobiopterin
Positron emission tomography; L-[β-^{11}C]DOPA; Dopamine; L-Tyrosine; Monkey brain (Tsukada, H. (713) 92)

Epidermal growth factor; Nerve growth factor; Interferon-γ; Tyrosine hydroxylase; Guanosine triphosphate cyclohydrolase; Sphingosine; Cyclic adenosine monophosphate; Pheochromocytoma cell (Anastasiadis, P.Z. (713) 125)

cGMP; *hph-1* mouse; Kainate; Nitric oxide (Brand, M.P. (735) 169)

Δ^9-Tetrahydrocannabinol
Fos protein; D_1 receptor; SCH-23390; Rat (Miyamoto, A. (710) 234)

Tetramethrin
Pyrethroid; Fenvalerate; Dichlorodiphenyltrichloroethane; Sodium channel; Dorsal root ganglion (Song, J.-H. (708) 29)

Pyrethroid; Sodium channel; Single sodium channel current; Dorsal root ganglion (Song, J.-H. (712) 258)

Tetrodotoxin
Satellite glial cell; Potassium current; Patch-clamp; Neuronal activity; Reserpine (Konishi, T. (708) 7)

Medial septal area; Reversible inactivation; Lidocaine; Reference memory; Working memory (Rashidy-Pour, A. (709) 131)

Dorsal hippocampus; Passive avoidance; Acquisition; Consolidation; Retrieval; Functional inactivation (Ambrogi Lorenzini, C. (730) 32)

Medial septal area; Long-term potentiation; Recurrent inhibition; Hippocampus; Reversible inactivation (Rashidy-Pour, A. (734) 43)

Vagal; Heart; Cardiovascular; A current; 4-Aminopyridine (Mihalevich, M. (739) 258)

TGR(mREN2)27 rat
Transgenic rat; Behaviour; Elevated X-maze; Open-field (Wilson, W. (729) 1)

Thalamic nucleus submedius
Spinal cord dorsal horn; Nociceptive neuron; Descending modulation; Rat (Zhang, Y.-Q. (737) 16)

Thalamic reticular nucleus
Dendritic morphology; Thalamus; Rat (Ohara, P.T. (731) 236)

Thalamocortical
Absence epilepsy; Reticular formation; Seizure; Thalamus; Sleep (Szymusiak, R. (713) 253)

Thalamocortical pathway
Calcium binding protein; Calbindin; Parvalbumin; Somatosensory system; Nociception (Lin, R.C.S. (711) 50)

Thalamus
Motor cortex; Basal ganglia; Globus pallidus; Supplementary motor area; Monkey (Kayahara, T. (706) 337)

Prefrontal cortex; Ultrastructure; Synapse; Golgi-EM; Anterograde degeneration (Kuroda, M. (708) 185)

Absence epilepsy; Reticular formation; Seizure; Thalamocortical; Sleep (Szymusiak, R. (713) 253)

Substance P receptor; Trigeminothalamic tract; Spinothalamic tract; Nociception; Trigeminal nuclei; Spinal cord; Rat (Li, J.-L. (719) 207)

Local circuit neuron; GABA; Confocal microscopy (Meng, X.-W. (728) 111)

N-Methyl-D-aspartate; 3-(2-Carboxypiperazine-4-yl)propyl-1-phosphonic acid; Kindling; Caudate-putamen; Amygdala; Substantia nigra; Cerebral cortex (Osonoe, M. (728) 242)

Dendritic morphology; Rat; Thalamic reticular nucleus (Ohara, P.T. (731) 236)

Uric acid; Cortex; Rat; Traumatic brain injury; Microdialysis (Tayag, E.C. (733) 287)

Autoradiography; Citalopram; Barrel (Bennett-Clarke, C.A. (733) 301)

Neuronal activity; Motor control; Kinematics (Butler, E.G. (736) 146)

Retrograde tracing; Anterograde tracing; Biocytin; Dextran-tetramethylrhodamine; Teleostei; Gymnotiformes (Zupanc, G.K.H. (739) 201)

Parkinson; Cat; Electrophysiology; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) (Schneider, J.S. (742) 25)

Kindling; Amygdala; Fatty acid; Palmitate; Lipid; Deoxyglucose; Brain; Plasticity; Seizure; Phospholipid; Phosphatidylcholine; Activation (Arai, T. (743) 131)

Thalamus neuron
Analgesia; Morphine; Morphine-6-glucuronide; Intravenous; Intrathecal (Jurna, I. (722) 132)

Thapsigargin
Carotid body; Ca^{2+}-store depletion; Hypoxic response; O_2 consumption (Lahiri, S. (709) 141)

Cell division; Endogenous opioid system; μ-Opioid receptor; Neural development; Intracellular calcium; Dantrolene; Nifedipine; Fura-2 (Hauser, K.F. (720) 191)

Opioid receptor; Cell division; Central nervous system maturation; Neuroglia; Drug abuse; Endogenous opioid system; U69593; U50488H; *Nor*-binaltorphimine; Fura-2; Intracellular calcium; Nifedipine (Gurwell, J.A. (737) 175)

Therapy
Brain injury; Hypoxia; Ischemia; Development; Neonate; Hypocalcemia (Sola, A. (741) 294)

Thermal stimulation
Dynorphin(1–8); Nociception; Antinociception; Spinal cord; Tachykinin (Zachariou, V. (706) 80)

Thermode
Laser; Electrical; Temporal summation; Human; Hyperalgesia (Arendt-Nielsen, L. (712) 165)

Thermogenesis
Brown adipose tissue; Brown fat; Ventromedial hypothalamus; Ventral lateral thalamic nucleus; Zona incerta (Kelly, L. (715) 172)

Thermosensitive neuron
Preoptic area; Anterior hypothalamus; Thermosensitivity; Wakefulness; Non-rapid eye movement sleep (Alam, Md.N. (718) 76)

Thermosensitivity
Preoptic area; Anterior hypothalamus; Thermosensitive neuron; Wakefulness; Non-rapid eye movement sleep (Alam, Md.N. (718) 76)

Theta rhythm
Median raphe nucleus; Hippocampus; Septum; 8-Hydroxy-2-(di-*n*-propylamino)tetralin (8-OH-DPAT); Serotonin (Kinney, G.G. (708) 116)

Medial septum; Vertical limb of the diagonal band of Broca; Hippocampus; Burst activity; Alcohol-preferring rat; Alcohol-nonpreferring rat (Breen, T.E. (714) 156)

Thiopental
Hypoxia; Barbiturate; Methohexital; Blood-brain barrier; Brain microvascular endothelial cell; Permeability (Fischer, S. (707) 47)

Thioperamide
Short-term social memory; Histamine; α-Fluoromethylhistidine; Immepip; Histidine (Prast, H. (734) 316)

Histamine H_3 receptor; Binding, ex vivo; Brain penetration; Rat; Mouse; [^{125}I]Iodophenpropit; Clobenpropit (Mochizuki, T. (743) 178)

Thirst
Area postrema; Hypertonic NaCl solution; Hypovolemia; Sucrose; Water intake (Curtis, K.S. (726) 31)

Thiyl radical
Alzheimer's disease; Muscarinic receptor; Glutathione; Trolox; Free radical (Frey II, W.H. (714) 87)

Three vessel occlusion
Vascular reserve capacity; Cerebral ischemia; Autoradiography; Acetazolamide; Rat (Kawata, Y. (739) 330)

Thromboxane
Cerebral ischemia-reperfusion; Platelet-activating factor; Free radical; Ascorbyl radical; Electron spin resonance (Matsuo, Y. (709) 296)

Thymidine
Nucleoside; Perfused brain; Blood–brain barrier; Blood–cerebrospinal fluid barrier; Transport; Carrier-mediated (Thomas née Williams, S.A. (741) 230)

Thymulin
Endotoxin; Hyperalgesia; Inflammation; Neuroimmunology (Safieh-Garabedian, B. (717) 179)

Thyroid
Hybridization, in situ; Paraventricular nucleus; Perifornical area; Suprachiasmatic nucleus; Supraoptic nucleus; Human brain (Guldenaar, S.E.F. (743) 93)

Thyroidectomy
Circannual rhythm; Rat; Suprachiasmatic nucleus; Pinealectomy; Ganglionectomy; Morphometric analysis (Peschke, E. (740) 81)

Thyroid hormone
Orphan receptor; Transcriptional regulation (Kainu, T. (743) 315)

Thyroid receptor β
Positron emission tomography; Glucose metabolism; Attention; Anterior cingulate (Matochik, J.A. (723) 23)

Thyrotrophin
T3; Estrogen; Pituitary D-2 receptor; Prolactin; Thyroxine; cAMP (Nedvídková, J. (712) 148)

Thyrotropin-releasing hormone
Substance P; Ventral raphe-spinal pathway; Lower motor neuron; Neurotrophic factor (Van den Bergh, P. (707) 206)

Respiration; Bötzinger neuron; Intracellular recording; Neurobiotin; Immunohistochemistry (Sun, Q.-J. (715) 136)

Wobbler mouse; Motoneuron disease; Spinal cord; Substance P; Serotonin; Receptor; Quantitative autoradiography (Deng, Y.-P. (725) 49)

Thyrotropin-releasing hormone
Calcium; Glutamate; Indo-1; Imaging; Anticonvulsant (Koenig, M.L. (730) 143)

Amygdala; Vagus; Gastric contractility (Morrow, N.S. (735) 141)

Thyroxine
T3; Estrogen; Pituitary D-2 receptor; Prolactin; Thyrotrophin; cAMP (Nedvídková, J. (712) 148)

Time constant
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Time course
Pilocarpine; Status epilepticus; Seizure; Cell death; *N*-Methyl-D-aspartate receptor; Glutamate (Fujikawa, D.G. (725) 11)

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Development; Retina; Neurite outgrowth; Regenerative failure (Bates, C.A. (714) 65)

Differentiation; Aldosterone; Ru28362; Hybridization, in situ; mRNA (Nishi, M. (722) 190)

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NMDA receptor antagonist; MK-801; LY 235959; D-Ala^2, Glu^4 deltorphin II; δ_2 opioid receptor agonist; Mice; Analgesic (Bhargava, H.N. (719) 56)

Parkinson's disease; Dyskinesia; Dopamine receptor; MPTP; Monkey; Catecholamine (Goulet, M. (719) 129)

Opioid; Phosphorylation; Dependence; cAMP; Opiate receptor; Protein kinase C (Wang, L. (723) 61)

MK-801; Dopamine; A-85653; Quinpirole; Fos; Rotation; Sensitization (Asin, K.E. (725) 67)

Ethanol; Dependence; Serotonin; Afterhyperpolarization; 5-HT_{1A} receptor; 5-HT_4 receptor (Lau, A.H.L. (731) 12)

Formalin test; Antinociception; NMDA receptor; Glycine co-agonist site (Lutfy, K. (731) 171)

Epilepsy; CGP 37849; CGP 39551; Excitatory amino acid antagonist; Anticonvulsant; Audiogenic seizure; Genetically epilepsy-prone rat (De Sarro, G. (734) 91)

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Dependence; $GABA_B$ receptor; Hippocampus; CA1 pyramidal neuron; CA3 pyramidal neuron; Intracellular electrophysiological recording (Frye, G.D. (735) 239)

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Vestibular reflex; Posture; Respiration; Larynx; Pharynx (Siniaia, M.S. (736) 160)

Tonic inhibition
Temperature increase; Metabolic heat production; Interscapular brown adipose tissue; Procaine; Propranolol; Indomethacin (Shibata, M. (716) 171)

Tonic pain
Chronic pain; Brain stimulation; Stimulation-produced analgesia; Antinociception; Limbic system (Fuchs, P.N. (743) 116)

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Tooth germ
Nerve fiber; Axon; Tooth pulp; Neuropeptide; Teleost; Immunohistochemistry (Tuisku, F. (729) 137)

Tooth pulp
Calbindin-D28k; Calretinin; Carbonic anhydrase; Trigeminal ganglion; Immunohistochemistry; Rat (Ichikawa, H. (715) 71)

Nociceptive neuron; Subnucleus caudalis; Reticular formation; Medulla oblongata; Cat (Yokota, T. (715) 230)

Nerve fiber; Axon; Tooth germ; Neuropeptide; Teleost; Immunohistochemistry (Tuisku, F. (729) 137)

Topographical mapping
Evoked potential; Regeneration; Hamster (Koster, N.L. (724) 117)

Topographical projection
Superior colliculus; Parabigeminal nucleus; Ferret; Visual processing; Horseradish peroxidase; Fluorescent microsphere (Jiang, Z.D. (743) 217)

Topographic projection
Vomeronasal organ; Accessory olfactory bulb; Receptor neuron; G protein; Signal transduction (Jia, C. (719) 117)

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Tyrosine hydroxylase; Locus coeruleus; Plasticity; Mouse; Immunocytochemistry (Ginovart, N. (721) 11)

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GluR6; NBQX; Kainate; SYM2081 (Carver, J.M. (720) 69)

Transcription
Na channel; A23187; Neuroblastoma (Hirsh, J.K. (706) 343)

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Transcription regulation
Suprachiasmatic nucleus; Circadian rhythm; *junB*; Gene expression; Immediate-early gene; Light; Entrainment; Spontaneous expression (Guido, M.E. (732) 215)

Suprachiasmatic nucleus; Circadian rhythm; *fosB*; c-*fos*; Gene expression; Immediate-early gene; Light; Entrainment (Guido, M.E. (739) 132)

Orphan receptor; Thyroid hormone (Kainu, T. (743) 315)

Transduction
Bullfrog; Patch-clamp; Sodium-dependent potassium channel; Taste cell; Apical membrane (Miyamoto, T. (715) 79)

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Cyclic adenosine monophosphate-regulated phosphoprotein-21 (ARPP-21); Limbic striatum; Promoter; Gene structure; Repression (Ivkovic, S. (709) 10)

Transferrin
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Ischemia; Ferritin; Delayed neuronal death; Astrocyte; Microglia; Oligodendrocyte; Immunocytochemistry (Ishimaru, H. (726) 23)

Transferrin receptor
Blood brain barrier; Capillary endothelium; Melanotransferrin; Human brain (Rothenberger, S. (712) 117)

Alzheimer's disease; Amyloid plaque; Melanotransferrin; β-Amyloid protein (Jefferies, W.A. (712) 122)

Aluminum; Transferrin; Oligodendrocyte; Iron; Manganese (Golub, M.S. (719) 72)

Transforming growth factor α
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Transforming growth factor-β1
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Transforming growth factor-β
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Transgenic insertion mutation
Neuronal migration; Cortical ectopia; Mouse; *Perinatal lethality*; Microgyria; Dysgenesis; Cerebral cortex (Beier, D.R. (727) 196)

Transgenic mice
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Transgenic mouse
Circumvallate papilla; Nerve growth factor; Protein gene product 9.5; Tyrosine hydroxylase; Aging (Takami, S. (707) 303)

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CuZn-superoxide dismutase; Heat shock protein; Hippocampal CA1 neuron; *hsp*70 mRNA; Oxygen-free radical; Transient global cerebral ischemia (Kondo, T. (737) 321)

Transgenic rat
TGR(mREN2)27 rat; Behaviour; Elevated X-maze; Open-field (Wilson, W. (729) 1)

Cytochrome P45011B1; Cerebral cortex; In situ hybridization; Neurosteroid; Hypertension (Erdmann, B. (733) 73)

Transient catecholaminergic neuron
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Transient focal ischemia
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Transient forebrain ischemia
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Transient global cerebral ischemia
CuZn-superoxide dismutase; Heat shock protein; Hippocampal CA1 neuron; *hsp*70 mRNA; Oxygen-free radical; Transgenic mouse (Kondo, T. (737) 321)

Transient global ischemia
Ischemic tolerance; Hyperbaric oxygen; Delayed neuronal death; Gerbil (Wada, K. (740) 15)

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Transmembrane signaling
Potassium current; Modulation; Inhibition (Villarroel, A. (740) 227)

Transmitter release
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Transneuronal degeneration
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Transplant
Dopamine; Neonate; Sensitization; Conditioning; Priming (Abrous, D.N. (708) 21)

Polymer; GDNF; Aging; Striatum; Dopamine; Behavior (Emerich, D.F. (736) 99)

Transplantation
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Aging; Sympathetic; Sensory; Cerebral blood vessel; Extracellular matrix; Autonomic (Gavazzi, I. (734) 167)

Neuro-glia interaction; Mutant mouse; S-100β; Serotonin; 5-HT_{1A}; Immunocytochemistry (Ueda, S. (738) 15)

Degeneration; Peripheral nerve; Nerve repair; Regeneration; Rat (Gulati, A.K. (742) 265)

Transplantation immunology
Glial cell line derived neurotrophic factor; Brain derived neurotrophic factor; Neurotrophin-3; Ramified microglia; Reactive microglia (Shinoda, M. (722) 153)

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Transporter
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Catecholamine; In situ hybridization; Locus coeruleus; Ventral tegmental area; Tyrosine hydroxylase (Figlewicz, D.P. (736) 54)

5-Hydroxytryptamine uptake; Calcium ion; Cerebral cortex; Protein kinase; Calmodulin (Yura, A. (738) 96)

Norepinephrine; Dopamine; Locus coeruleus; Nigrostriatal; Uptake; Neurotoxicity (Dluzen, D.E. (741) 215)

Trauma
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Axotomy; Culture; Spinal cord injury; Ion; Calcium; Gray matter; White matter (Rosenberg, L.J. (734) 349)

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ADP-ribosylation; Mono-ADP-ribosylation; Poly-ADP-ribosylation; Nitric oxide; *N*-Methyl-D-aspartate; CA1; Hippocampus (Wallis, R.A. (710) 169)

Cytokine; Interleukin-6; Nerve growth factor; Astrocyte; Human (Kossmann, T. (713) 143)

Startle; Reflex function; Sensory system (Wiley, J.L. (716) 47)

Microtuble-associated protein 2; β-Amyloid precursor protein; β-Amyloid; MK-801; Dendrite; Axon (Lewén, A. (719) 161)

Axonal injury; Axotomy; Cytoskeleton; Neurofilament; Microtubule; Mitochondrion; Membrane (Pettus, E.H. (722) 1)

Cortical contusion; Hippocampal CA3 region; Cerebral glucose metabolism (Queen, S.A. (724) 246)

Uric acid; Thalamus; Cortex; Rat; Microdialysis (Tayag, E.C. (733) 287)

Fluid percussion; Phosphatidylinositol bisphosphate; Diacylglycerol; Free fatty acid; Arachidonic acid; Scopolamine; Muscarinic; Rat (Lyeth, B.G. (742) 63)

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Treatment
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proTRH
Periaqueductal gray; Opiate withdrawal; Hybridization histochemistry in situ; Immunohistochemistry; Rat (Légrádi, G. (729) 10)

Trichostatin A
PC12D cell; Neurite; Nerve growth factor; Fibroblast growth factor (Sano, M. (742) 195)

Tricyclic antidepressant
Lipopolysaccharide; Depression; Saccharin preference; Sexual behavior; Anorexia; Body weight; Social exploration; Open-field test; Imipramine (Yirmiya, R. (711) 163)

Trigeminal
Pain; Nociception; Analgesia; Dorsal horn; *N*-methyl-D-aspartic acid; [D-Ala^2,*N*-Me-phe^4,Gly^5-ol]enkephalin; [D-$Pen^{2,5}$]enkephalin (Zhang, K.-M. (719) 229)

Trigeminal ganglia
Cyclin-dependent kinase; Immunohistochemistry; Purkinje cell; Nuclear protein; Central nervous system; Peripheral nervous system (Ino, H. (732) 179)

Trigeminal ganglion
Parvalbumin; Calbindin D28k; Neuropeptide Y; Nerve injury (Wakisaka, S. (707) 228)

Vomeronasal organ; Sphenopalatine ganglion; Nitric oxide synthase; Neuropeptide; Coexistence; Dual band filter; Mouse (Matsuda, H. (712) 35)

Calbindin-D28k; Calretinin; Carbonic anhydrase; Tooth pulp; Immunohistochemistry; Rat (Ichikawa, H. (715) 71)

Trigeminal nuclei
Substance P receptor; Trigeminothalamic tract; Spinothalamic tract; Nociception; Spinal cord; Thalamus; Rat (Li, J.-L. (719) 207)

Trigeminal nucleus caudalis
Pain; Medullary dorsal horn; Opioid receptors; Antinociception; Nociception (Wang, X.-M. (739) 235)

Trigeminal pathway
Neuronal nitric oxide synthase; 7-Nitroindazole; Autoradiography; [^{14}C]iodoantipyrine; Somatosensory activation; α-Chloralose (Cholet, N. (708) 197)

Trigeminothalamic tract
Substance P receptor; Spinothalamic tract; Nociception; Trigeminal nuclei; Spinal cord; Thalamus; Rat (Li, J.-L. (719) 207)

Trimethyltin
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Trinucleotide repeat
Cyclic AMP regulated sequence; E-box; C6 cell; PC12 cell; L6 cell (Song, W. (721) 204)

Tripeptide reduced glutathione
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TrkB receptor
Brain-derived neurotrophic factor; Nerve growth factor; Cortex; Protein kinase C; cyclic AMP (Barnea, A. (732) 52)

Trolox
Alzheimer's disease; Muscarinic receptor; Glutathione; Free radical; Thiyl radical (Frey II, W.H. (714) 87)

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Truncal vagotomy
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Tryptophan administration
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Tryptophan hydroxylase
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Tuberomamillary nucleus
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β-Tubulin
Axon regeneration; Axonal transport; Cytoskeleton; Axotomy; Sensory neuron; Dorsal root; Sciatic nerve (Hoffman, P.N. (708) 182)

Tubulin expression
Tubulin isotype; Class II β-tubulin; Class III β-tubulin; Slow axonal transport; Axon regeneration; Immunoprecipitation (Hoffman, P.N. (742) 329)

Tubulin isotype
Class II β-tubulin; Class III β-tubulin; Slow axonal transport; Axon regeneration; Tubulin expression; Immunoprecipitation (Hoffman, P.N. (742) 329)

Tumor necrosis factor
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Tumor necrosis factor α
Interleukin-6 receptor; Gp 130; c-*fos*; Reverse transcriptase–polymerase chain reaction; Hybridization, in situ; PC12 cell; Sympathetic neuron; Glucocorticoid; Differentiation (März, P. (706) 71)

Turning behavior
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Turtle
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Two-dimensional electrophoresis
Dentatorubral-pallidoluysian atrophy; CAG trinucleotide repeat; Isoelectric variant; Lymphoblastoid cell; Post-translational modification (Yazawa, I. (732) 154)

Type 1 astrocyte
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Type I cell
Carotid body; Chronic hypoxia; Ca^{2+} channel; Nifedipine; ω-Conotoxin GVIA (Peers, C. (739) 251)

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Tyrosine
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Amino acid transport; Arginine vasopressin; Blood–brain barrier; Kinetic constant; L-system; Valine (Reichel, A. (713) 232)

Adrenergic receptor; Hypothalamus; Septal-hippocampal pathway; Cognitive function; Mouse; Eight-arm maze; Diet restriction; Anorexia nervosa (Avraham, Y. (732) 133)

L-Tyrosine
Positron emission tomography; L-[β-^{11}C]DOPA; Tetrahydrobiopterin; Dopamine; Monkey brain (Tsukada, H. (713) 92)

Tyrosine hydroxylase
Cholecystokinin; Ventral tegmental area; Drug addiction (Harris, H.W. (706) 1)

Transient catecholaminergic neuron; Bed nucleus of stria terminalis; Central amygdaloid nucleus; Immunohistochemistry; Wallerian degeneration (Beltramino, C.A. (706) 37)

Circumvallate papilla; Transgenic mouse; Nerve growth factor; Protein gene product 9.5; Aging (Takami, S. (707) 303)

Hemicholinium-3 binding; Choline acetyltransferase; Muscarinic receptor; Septum; Hippocampus; Developmental lead-exposure; Fimbria-fornix transection; Superior cervical ganglionectomy (Bielarczyk, H. (708) 108)

1(*R*); 2(*N*)-Dimethyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline (*N*-methyl-(*R*)-salsolinol); Animal model; Parkinson's disease; Dopamine; 6,7-Dihydroxyisoquinolinium ion (Naoi, M. (709) 285)

Sprouting; Striatum; 6-Hydroxydopamine; Dopamine β-hydroxylase; Ultrastructure (Blanchard, V. (709) 319)

Piriform cortex; Cholera toxin B subunit; Dopamine; Dopamine β-hydroxylase; Ventral tegmental area; Locus coeruleus (Datiche, F. (710) 69)

Photoperiod; L-amino acid decarboxylase; Immunocytochemistry; Arcuate nucleus; Median eminence; Hamster (Krajnak, K. (712) 95)

Tetrahydrobiopterin; Epidermal growth factor; Nerve growth factor; Interferon-γ; Guanosine triphosphate cyclohydrolase; Sphingosine; Cyclic adenosine monophosphate; Pheochromocytoma cell (Anastasiadis, P.Z. (713) 125)

β(25–35); Locus coeruleus; Medial septum; Glutamate; Choline acetyltransferase (Chen, S.-Y. (715) 44)

Neurotensin; Double pre-embedding immunocytochemistry; Electron microscopy; Mediobasal hypothalamus; Guinea pig (Marcos, P. (715) 63)

Cocaine; Development; Cortex; Catecholamine (Wang, X.-H. (715) 221)

Differentiation; Synaptogenesis; Neural crest; *N*-Methyl-D-aspartate; Glutamate; Receptor; Gut (Burns, G.A. (718) 117)

Locus coeruleus; Mouse; Perikarya; Neuropile; Plasticity; Immunoautoradiography; Topology (Ginovart, N. (719) 45)

Locus coeruleus; Plasticity; Mouse; Immunocytochemistry; Topology (Ginovart, N. (721) 11)

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Dopamine receptor; Striatum; Substantia nigra; Immunohistochemistry; Electron microscopy (Caillé, I. (730) 17)

Hypoxia; Nucleus tractus solitarius; Chemoreceptor pathway; Catecholaminergic nuclei; Baroreceptor pathway; Quantitative radioimmunohistochemistry (Pépin, J.L. (733) 1)

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Catecholamine; In situ hybridization; Locus coeruleus; Ventral tegmental area; Transporter (Figlewicz, D.P. (736) 54)

Vasoactive intestinal polypeptide; Choline acetyltransferase; Major pelvic ganglion (Dun, N.J. (738) 292)

Aromatic L-amino acid decarboxylase; Mesencephalic culture; GM1 ganglioside; Recovery; 1-Methyl-4-phenylpyridinium (MPP^+) (Dalia, A. (742) 260)

Tyrosine kinase
Glioma; Inhibitor; Protein kinase C; Signal transduction (Baltuch, G.H. (710) 143)

U

U-101017
$GABA_A$ receptors; Benzodiazepine site; Low liability to abuse; Cloned $GABA_A$ receptors (Im, H.K. (714) 165)

U-50,488
Quinelorane; Deafferentation; κ Opioid receptor; Nor-binaltorphimine; Prolactin (Durham, R.A. (732) 113)

U69593
Opioid receptor; Cell division; Central nervous system maturation; Neuroglia; Drug abuse; Endogenous opioid system; U50488H; *Nor*-binaltorphimine; Fura-2; Intracellular calcium; Nifedipine; Thapsigargin (Gurwell, J.A. (737) 175)

Ubiquinol-cytochrome *c* reductase
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); 1-Methyl-4-phenylpyridine (MPP^+); Neurotoxicity; NADH-ubiquinone oxidoreductase; Succinate-ubiquinone oxidoreductase; Cytochrome *c* oxidase (Desai, V.G. (715) 1)

Ubiquitin
Protease; Proteasome; Multicatalytic; Myelin basic protein; Brain (Akaishi, T. (722) 139)

U50488H
Whole-cell patch-clamp; Voltage-gated calcium current; CCK-8; L365,260 (Xu, T. (730) 207)

U50,488H
Morphine; Opioid; Fos; Brain; Reward; Guinea-pig (Bot, G. (731) 45)

U50488H
Opioid receptor; Cell division; Central nervous system maturation; Neuroglia; Drug abuse; Endogenous opioid system; U69593; *Nor*-binaltorphimine; Fura-2; Intracellular calcium; Nifedipine; Thapsigargin (Gurwell, J.A. (737) 175)

Ultrasonic vocalization
Acetylcholine; Behavioral inhibition; Dentate gyrus; Freezing; Hippocampus; Presynaptic muscarinic receptor; Oxotremorine; Septohippocampal cholinergic system; Preweanling rat (Takahashi, L.K. (731) 230)

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Growth inhibitory factor; Metallothionein; Rat; Brain; Immunohistochemistry (Yamada, M. (735) 257)

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Ultraviolet vision
Ultraviolet light; Visual cortex; Fos immunohistochemistry; Rat (Amir, S. (716) 213)

Unanesthetized
Quantitative microdialysis; Glutamate; Rat striatum; Enzyme assay; Extracellular concentration (Miele, M. (707) 131)

Unconditioned stimulus
Spinal trigeminal nucleus; Caudalis; Interpolaris; c-Fos; Heart rate conditioning; Cornea; Medial geniculate (McEchron, M.D. (710) 112)

Uncoupling
$GABA_A$; Steroid; Barbiturate; Pregnanolone; Regulation; Modulation; Tolerance (Friedman, L.K. (707) 100)

NADH; Hippocampal slice; Oxidative phosphorylation; Chemical inhibition; Selective vulnerability; CA1; CA3 (Riepe, M.W. (710) 21)

Unilateral labyrinthectomy
Immediate early gene; c-fos; c-jun; Krox-24; Vestibular nucleus; Vestibular compensation (Darlington, C.L. (735) 173)

Uni- or bi- AV3V lesion
c-*fos*; Vasopressin neuron; Oxytocin neuron; Dehydration; Angiotensin II (Xu, Z. (713) 36)

Unit conductance
Nonselective cation channel; G protein; Mg^{2+}; Power spectrum; Muscarinic receptor (Inoue, M. (739) 350)

3′ Untranslated region
Huntingtin; mRNA; Tissue distribution; Brain; Mouse (Casanova, E. (743) 320)

Upper airway
Control of breathing; Microinjection; Decerebrate cat (Douse, M.A. (726) 213)

Up-regulation
Schizophrenia; Serotonin-5-HT_{1A} receptor; [^{3}H]8-OH-DPAT; Prefrontal cortex; Postmortem brain (Sumiyoshi, T. (708) 209)

Na channel; Cyclic adenosine monophosphate (cyclic AMP)-dependent protein kinase; [^{3}H]Saxitoxin binding; ^{22}Na influx; ^{45}Ca influx; Catecholamine secretion; Adrenal medulla (Yuhi, T. (709) 37)

Uptake
Neurotoxicity; Cell death; Hippocampus; Glutamate; NMDA; Na^+; Ca^{2+} (Takahashi, M. (735) 1)

Gliotoxin; Glutamate; System x_c^-; Excitotoxin; Quisqualate (Tsai, M.J. (741) 166)

Norepinephrine; Dopamine; Locus coeruleus; Nigrostriatal; Transporter; Neurotoxicity (Dluzen, D.E. (741) 215)

Ureter
c-*fos*; Electrical stimulation; Rat; Spinal cord; Afferent input (Matsumoto, G. (709) 197)

Uric acid
In vivo; Rat brain; Oxidative stress; Ascorbic acid; Lipid peroxidation; Malonaldehyde; Antioxidant (Waterfall, A.H. (712) 102)

Thalamus; Cortex; Rat; Traumatic brain injury; Microdialysis (Tayag, E.C. (733) 287)

Urine
Androgen; Brain; Marking; Preference; Sexual behavior; Ultrasonic vocalizations; Mouse (Sipos, M.L. (729) 29)

Urocortin
Corticotropin-releasing factor; Binding protein; Stress; Complex (Behan, D.P. (725) 263)

Use-dependent neural growth
Sensorimotor cortex; Dendritic branching; Dendritic spine; Astrocyte; Microglia; Glial fibrillary acidic protein; Postural asymmetry (Forgie, M.L. (710) 249)

V

Vagal
Autonomic; δ; Enkephalin; ICI 154,129; μ; Naloxone; Opioid; Solitarius (Feldman, P.D. (709) 331)

Heart; Cardiovascular; A current; Tetrodotoxin; 4-Aminopyridine (Mihalevich, M. (739) 258)

Vagina
Vagus nerve; Spinal cord; Cervix; Vaginocervical stimulation; Analgesia; Pupil dilatation (Komisaruk, B.R. (708) 128)

Vaginocervical stimulation
Vagus nerve; Spinal cord; Vagina; Cervix; Analgesia; Pupil dilatation (Komisaruk, B.R. (708) 128)

Vagus
Interleukin-1β; Immune; Adrenocorticotropin; Cytokine; Regulation; Hypothalamic-pituitary-adrenal axis (Kapcala, L.P. (728) 247)

Amygdala; Thyrotropin-releasing hormone; Gastric contractility (Morrow, N.S. (735) 141)

Heart; Medulla; Nucleus ambiguus; Parasympathetic (Panneton, W.M. (738) 342)

Vagus nerve
Nucleus tractus solitarius; Ventromedial hypothalamic nucleus; Area postrema; Pancreas; Ovariectomy; Cholecystokinin receptor; Devazepide; L365,260; Food intake (Geary, N. (179) 179)

Spinal cord; Vagina; Cervix; Vaginocervical stimulation; Analgesia; Pupil dilatation (Komisaruk, B.R. (708) 128)

Spinothalamic tract neuron; Cardiopulmonary sympathetic afferent; Spinal transection; Inhibition; Nociception (Zhang, J. (709) 337)

Atrioventricular conduction; Cardiac rate; Glutamate; Immunocytochemistry; Histochemistry; Nucleus ambiguus; Retrograde transport; Tachykinin (Massari, V.J. (715) 197)

Valine
Amino acid transport; Arginine vasopressin; Blood–brain barrier; Kinetic constant; L-system; Tyrosine (Reichel, A. (713) 232)

VAMP-2
Exocytosis; SNAP-25; Botulinum neurotoxin; MgATP (Misonou, H. (737) 351)

Vanilloid receptor
Messenger plasticity; Axotomy; Chronic constriction injury rat; Resiniferatoxin (Farkas-Szallasi, T. (719) 213)

Varicosity
Cortex; Spine; Biotinylated dextran amine; Pigeon (Veenman, C.L. (707) 1)

PC12 cell; Exocytosis; Nerve growth factor; Differentiation; Amperometric detection; Microelectrode (Zerby, S.E. (712) 1)

Various brain regions
APP secretion; PI metabolism; AF102B; M1 receptor; Alzheimer's disease (Pittel, Z. (742) 299)

Vascular
Prostaglandin; Perivascular cell (Breder, C.D. (713) 64)

Vascular permeability
FITC-dextran; Cerebral venules; Cerebral microcirculation; Hoe-140; Brain; Rat (Mayhan, W.G. (738) 337)

Vascular reactivity
BQ-123; cAMP; ET-1; ET_A; Hematoma; Piglet (Yakubu, M.A. (734) 149)

Vascular reserve capacity
Cerebral ischemia; Autoradiography; Acetazolamide; Three vessel occlusion; Rat (Kawata, Y. (739) 330)

Vascular smooth muscle cell (A7r5)
Cytosolic calcium ($[Ca^{2+}]_i$); Glomus cell; Pheochromocytoma 12 cell; Carotid body; Hypoxia (Bright, G.R. (706) 297)

Vascular system
Lys-γ_2-MSH-like immunoreactivity; Immunohistochemistry; Brain; Heart; Rat (Fodor, M. (731) 182)

Vasoactive intestinal peptide
VIP receptor; REM sleep deprivation; Stress; Brainstem; Diencephalon (Jiménez-Anguiano, A. (728) 37)

Circadian rhythm; *Tau* mutant hamster; Suprachiasmatic nucleus; Vasopressin; Locomotor behavior (Scarbrough, K. (736) 251)

Vasoactive intestinal polypeptide
Suprachiasmatic nucleus; Human hypothalamus; Vasopressin; Circadian rhythm (Hofman, M.A. (722) 78)

Choline acetyltransferase; Tyrosine hydroxylase; Major pelvic ganglion (Dun, N.J. (738) 292)

Vasopressin; Suprachiasmatic nucleus; Microwave; Antigen retrieval; Morphometry (Zhou, J.-N. (742) 334)

Vasomotor neuron
Alcohol; Chemoreflex; Excitatory amino acid; Rostral ventrolateral medulla; Rat (Sun, M.-K. (730) 182)

Vasopressin
Retrograde degeneration; Oxytocin; Rat brain; Immunocytochemistry (Alonso, G. (711) 34)

Vasotocin; Aging; Preoptic region; Sexual behavior; Avian brain; Quantitative analysis (Panzica, G.C. (712) 190)

Oxytocin; Antiserum; Hippocampus; Septum; Social recognition (Van Wimersma Greidanus, Tj.B. (713) 153)

Norepinephrine; Oxytocin; Prolactin; Conditioned fear; Novelty stress; Motor activity; Noxious stimulus (Onaka, T. (713) 261)

Rabbit; Oxytocin; Immunochemistry; Hypothalamus; Pregnancy; Parturition; Estrus; Maternal behavior (Caba, M. (720) 7)

Suprachiasmatic nucleus; Human hypothalamus; Vasoactive intestinal polypeptide; Circadian rhythm (Hofman, M.A. (722) 78)

Alcohol; ACTH; Corticotropin-releasing factor; Hypothalamus; Rat (Rivier, C. (726) 1)

Hyperosmotic stress; Hypothalamo-neurohypophysial system; Hypophysial stalk transection; Supraoptic nucleus; Polydipsia (Huang, Y.-S. (732) 95)

Calretinin; Oxytocin; Supraoptic nucleus; Paraventricular nucleus; Anterior commissural nucleus; Suprachiasmatic nucleus (Arai, R. (735) 154)

Circadian rhythm; *Tau* mutant hamster; Suprachiasmatic nucleus; Vasoactive intestinal peptide; Locomotor behavior (Scarbrough, K. (736) 251)

Vasoactive intestinal polypeptide; Suprachiasmatic nucleus; Microwave; Antigen retrieval; Morphometry (Zhou, J.-N. (742) 334)

Vasopressin antagonist
Antidiuretic hormone; Brain vasopressin receptor; OPC-31260; 1-Desamino-8-D-arginine vasopressin; Increased plasma osmolality (Liu, H.-W. (719) 14)

Vasopressin binding sites
Human brain; Linear $V1_a$-antagonist choroid plexus; Alzheimer's disease; Cerebrospinal fluid (Korting, C. (706) 151)

Vasopressin neuron
Uni- or bi- AV3V lesion; c-*fos*; Oxytocin neuron; Dehydration; Angiotensin II (Xu, Z. (713) 36)

Vasopressin V2 receptor
Tachykinin; NK-3 receptor; Antidiuretic action; Paraventricular nucleus; Senktide (Eguchi, T. (743) 49)

Vasotocin
Vasopressin; Aging; Preoptic region; Sexual behavior; Avian brain; Quantitative analysis (Panzica, G.C. (712) 190)

Ventral hippocampus
N-Methyl-D-aspartate; Oxygen tension; Brain temperature; Blood flow; Caudate putamen (Hara, S. (737) 339)

Ventral horn
Noradrenaline; Lumbar spinal cord; Microdialysis; Transmitter release; Neurotoxin; Electrolytic lesion; Rat (Leanza, G. (738) 281)

Ventral lateral thalamic nucleus
Brown adipose tissue; Brown fat; Thermogenesis; Ventromedial hypothalamus; Zona incerta (Kelly, L. (715) 172)

Ventral medulla
Norepinephrine; Opiate; Withdrawal; Vigilance; Excitatory transmission (Van Bockstaele, E.J. (732) 223)

Retrograde tracing; Fluorescent microsphere; Brainstem; Periaqueductal grey; Rat (Hudson, P.M. (733) 138)

Ventral pallidum
Conditioned place preference; Reward; Locomotor activity; Cocaine; Amphetamine; Dopamine; Procaine; Nucleus accumbens (Gong, W. (707) 64)

Ventral premammillary nucleus
Estradiol; Dorsal premammillary nucleus; μ Opioid receptors; Hypothalamus (Brown, L.L. (742) 347)

Ventral raphe-spinal pathway
Substance P; Thyrotropin-releasing hormone; Lower motor neuron; Neurotrophic factor (Van den Bergh, P. (707) 206)

Ventral root
Capsaicin; Neurokinins; III group afferent; IV group afferent; Muscle ergoceptor; Muscle nociceptor; Dorsal root; Oculomotor nerve (Della Torre, G. (713) 223)

Ventral root avulsion
Spinal cord; α-Motoneuron; Axonal lesion; Retrograde reaction; Cat (Holmberg, P. (731) 155)

Ventral striatum
Dopamine; Medial forebrain bundle; Refractory period; Reward; Single unit (Anderson, R.M. (718) 83)

Olfactory tubercle; Gonadotropin; Testosterone; Reproduction; Olfactory pathway (Gomez, D.M. (723) 148)

Immediate-early gene; Immunohistochemistry; Mesoprefrontal; Mesocortical; Reinnervation (Chapman, M.A. (736) 270)

Ventral tegmental area
Tyrosine hydroxylase; Cholecystokinin; Drug addiction (Harris, H.W. (706) 1)

8-OH-DPAT; Microdialysis; WAY 100635; SCH 23390; SCH 39166 (Consolo, S. (707) 320)

Piriform cortex; Cholera toxin B subunit; Dopamine; Dopamine β-hydroxylase; Tyrosine hydroxylase; Locus coeruleus (Datiche, F. (710) 69)

Naltrexone methylbromide; Formalin test; Dopamine; Footshock stress; Opioid; Analgesia (Altier, N. (718) 203)

DNQX; Amphetamine; Locomotor activity (Dalia, A. (728) 209)

Opioid; Sexual behavior; Motivation; Reward; Anticipatory behavior (Van Furth, W.R. (729) 20)

Cocaine; Dopamine somatodendrites; Dopamine D_2 autoreceptors; Nucleus accumbens; Microdialysis (Chen, S.-Y. (729) 294)

Behavioral sensitization; Dopamine; Fos immunohistochemistry; Mesolimbic; Nicotine (Panagis, G. (730) 133)

Narcolepsy; Cataplexy; Dopaminergic system (Reid, M.S. (733) 83)

Catecholamine; In situ hybridization; Locus coeruleus; Tyrosine hydroxylase; Transporter (Figlewicz, D.P. (736) 54)

Extracellular recording; Adrenalectomy; Mineralocorticoid receptor; Calcium-activated potassium conductance (Overton, P.G. (737) 146)

Nucleus accumbens; Subpallidal area; Single unit recording; Dextran-conjugated-rhodamine tracer; Limbic-motor integration (Wu, M. (740) 151)

Maternal behavior; Opioid; Mesolimbic; Naltrexone methobromide; Morphine; Rat (Thompson, A.C. (743) 184)

Ventral tegmental nucleus
Fos-like immunoreactivity; γ-Aminobutyric acid; Mamillary body (Shim, I. (712) 173)

Ventrolateral medulla
Norepinephrine; Paragigantocellularis; Opiate withdrawal (Van Bockstaele, E.J. (718) 61)

Ventromedial hypothalamic neuron
Scrotal thermal stimulation; Lidocaine; Medial preoptic nucleus blockade (Li, Q. (716) 134)

Ventromedial hypothalamic nucleus
Vagus nerve; Nucleus tractus solitarius; Area postrema; Pancreas; Ovariectomy; Cholecystokinin receptor; Devazepide; L365,260; Food intake (Geary, N. (179) 179)

Rostral ventrolateral medulla; Multiunit activity; Blood pressure; Heart rate; Rat (Hirasawa, M. (724) 186)

2,3-Butanedione monoxime; Glycine; Chloride current; Protein kinase; Phosphorylation; Phorbol 12,13-dibutyrate; Chelerythrine (Ye, J.-H. (735) 20)

Circadian rhythm; [^{3}H]D-Aspartate; Posterior hypothalamic nucleus; Paraventricular thalamic nucleus; Lateral septal nucleus (Moga, M.M. (743) 171)

Ventromedial hypothalamus
Microdialysis; 5HT; Progesterone; Preoptic area; Midbrain central grey; Lordosis (Farmer, C.J. (711) 84)

Brown adipose tissue; Brown fat; Thermogenesis; Ventral lateral thalamic nucleus; Zona incerta (Kelly, L. (715) 172)

Sympathetic nerve; Spleen; Mitogenic response; Glucocorticoid; Lymphocyte (Okamoto, S. (739) 308)

NADPH diaphorase; Nitric oxide synthase; Estrogen receptor; Immunocytochemistry; Electron microscopy; Reproductive behavior (Rachman, I.M. (740) 291)

Progesterone; Sexual behavior; Luteinizing hormone; Preoptic area; Female; Sheep (Blache, D. (741) 117)

Steroid hormone receptors; Reptile (Hartman, V. (741) 344)

Ventromedial nucleus
Neuropeptide Y; mRNA; Arcuate nucleus; Gold thioglucose; Food deprivation (Bergen, H.T. (707) 266)

Gold thioglucose; Food intake; Glucose; 2-Deoxyglucose; Cholecystokinin (Bergen, H.T. (734) 332)

Verapamil
Epilepsy; Human slice; Calcium antagonist; Flunarizine; Bicuculline (Straub, H. (733) 307)

Epilepsy; Intracellular calcium; Calcium antagonist; Channel; *Helix pomatia* (Wiemann, M. (734) 49)

Veratridine
Anemone toxin II; Voltage-dependent sodium channel (Castillo, C. (733) 243)

Brain-derived neurotrophic factor; Release; Synaptosome; Slice; Superfusion; Cortex; Hippocampus (Androutsellis-Theotokis, A. (743) 40)

Veratridine-induced cytotoxicity
Chromaffin cell; ω-Conotoxin MVIIC; Cytosolic Ca^{2+} oscillation (Maroto, R. (714) 209)

Vernier
Visual evoked potential; Apparent motion; Visual cortex (Noss, R.S. (727) 153)

Vertical limb of the diagonal band of Broca
Medial septum; Hippocampus; Theta rhythm; Burst activity; Alcohol-preferring rat; Alcohol-nonpreferring rat (Breen, T.E. (714) 156)

Vesamicol
Rat; Hippocampus; Acetylcholine; Choline-*O*-acetyltransferase; Acetylcholinesterase; Cytosol; Synaptic vesicle (Carroll, P.T. (725) 3)

Vestibular
Efferent; Hybridization, in situ; Hair cell; Nicotinic acetylcholine receptor; Scarpa's ganglion (Hiel, H. (738) 347)

Vestibular compensation
Immediate early gene; c-fos; c-jun; Krox-24; Vestibular nucleus; Unilateral labyrinthectomy (Darlington, C.L. (735) 173)

DA1 receptor; DA2 receptor; Aging; Rat; Quantitative receptor autoradiography (Giardino, L. (736) 111)

Vestibular end organ
Aspartate; Cochlea; Guinea pig; Immunocytochemistry; Hair cell; Freeze substitution (Usami, S.-i. (742) 43)

Glutathione; Cochlea; Guinea pig; Immunocytochemistry; Antioxidant; Freeze substitution (Usami, S.-i. (743) 337)

Vestibular ganglia
Axonal transport; Dorsal root ganglia; 3,3′-Iminodipropionitrile; Myelinated perikarya; Neurofilament; Neurotoxicity; Proximal axonopathy (Llorens, J. (717) 118)

Vestibular nuclear neuron
Otolith; Spontaneous discharge; Off-vertical axis rotation; Bidirectional response sensitivity; Rat (Lai, C.H. (739) 322)

Vestibular nuclei
Postembedding immunocytochemistry; Electron microscopy; Eye movement; Vestibulo-ocular reflex (Wentzel, P.R. (707) 314)

Vestibular nucleus
Immediate early gene; c-fos; c-jun; Krox-24; Vestibular compensation; Unilateral labyrinthectomy (Darlington, C.L. (735) 173)

Vestibular reflex
Posture; Respiration; Larynx; Pharynx; Tongue (Siniaia, M.S. (736) 160)

Vestibular rotation
Decerebrate cat; Flocculus; Purkinje cell; Adaptation (Powell, K.D. (710) 281)

Vestibular sensory system
Somato-autonomic reflex; Autonomic nervous system; Movement; Gravity; Orthostatic hypotension (Ruggiero, D.A. (743) 294)

Vestibulo-autonomic reflex
Locus coeruleus; Rat; Caloric stimulation; GABA; Iontophoresis; Labyrinthectomy; Electrical vestibular stimulation (Nishiike, S. (712) 84)

Vestibulo-ocular reflex
Postembedding immunocytochemistry; Electron microscopy; Vestibular nuclei; Eye movement (Wentzel, P.R. (707) 314)

Adaptation; Cross axis; Medial vestibular nucleus; Motor learning; Plasticity; Single unit; Superior vestibular nucleus (Quinn, K.J. (718) 176)

Video microscopy
Fiber-optic plate; Fluorescence microscopy; Calcium measurement; Hippocampus; Anoxia; In vivo experiment (Hirano, M. (732) 61)

Vigilance
Norepinephrine; Ventral medulla; Opiate; Withdrawal; Excitatory transmission (Van Bockstaele, E.J. (732) 223)

Vimentin
Glial fibrillary acidic protein; Immunohistochemistry; Dentate gyrus; Hilus; Seizure (Stringer, J.L. (717) 147)

VIP receptor
Vasoactive intestinal peptide; REM sleep deprivation; Stress; Brainstem; Diencephalon (Jiménez-Anguiano, A. (728) 37)

Viral vector
Gene therapy; Adeno-associated virus; Inferior colliculus; Hippocampus (McCown, T.J. (713) 99)

Visceral
Inflammation; Nociception; Colon; Colorectal distension; Zymosan; Excitatory amino acid; *N*-Methyl-D-aspartate (Coutinho, S.V. (736) 7)

Visceral afferent
Spinal cord; Immediate early gene; Reno-renal reflex; c-*fos*; Dorsal root ganglion; Albino rat; Kidney (Fitch, G.K. (723) 199)

Visceral distress
CTA; D1; D2; SCH 23390; Sulpiride; Taste; Rat (Caulliez, R. (729) 234)

Visceral pain
Estrous cycle; Colonic distension; Nociception; Rat; Halothane; Anesthesia (Sapsed-Byrne, S. (742) 10)

Vision
Area 21a; Spatial frequency; Temporal frequency; Contrast sensitivity; Extrastriate cortex; Cat (Tardif, E. (716) 219)

Gap junction; Retina; Electrical synapse; Connexin; Plasticity (McMahon, D.G. (718) 89)

Visual cortex; Cat; Oscillation (Molotchnikoff, S. (731) 91)

Visual cortex
Acetylcholine; Muscarinic-nicotinic receptor; LDTg; DLG; Rat (Lewandowski, M.H. (706) 233)

Lateral geniculate nucleus; Magnocellular; Parvocellular; Parallel processing; Immunohistochemistry (Chaudhuri, A. (709) 17)

Ultraviolet light; Fos immunohistochemistry; Ultraviolet vision; Rat (Amir, S. (716) 213)

Glutamate; Noradrenaline; Synaptic plasticity; Calcium; Imaging; Synergy; Nonlinear interaction (Yang, B. (721) 181)

Multielectrode; Recording; Electrode array; Electrophysiology; Parallel processing (Nordhausen, C.T. (726) 129)

Visual evoked potential; Vernier; Apparent motion (Noss, R.S. (727) 153)

NMDA receptor; Visual deprivation; Cat; Contrast–response curve; Synapse elimination (Czepita, D. (728) 7)

Cat; Oscillation; Vision (Molotchnikoff, S. (731) 91)

Nerve growth factor; GAP-43; Synaptophysin; Plasticity; Neurotrophin (Liu, Y. (732) 36)

Glutamate receptor; Synaptic transmission; Neural plasticity; Nerve block; Sensory deprivation (Yoshimura, H. (733) 108)

Neural circuitry; Voltage-sensitive dye; Cooled CCD camera; Optical imaging (Tanifuji, M. (738) 83)

Interhemispheric; Horseradish peroxidase; Ultrastructure (Kim, J.H.Y. (740) 47)

Visual deprivation
Visual cortex; NMDA receptor; Cat; Contrast–response curve; Synapse elimination (Czepita, D. (728) 7)

Visual discrimination learning
Cerebellum; Spatial orientation; Motor coordination; Fastigial nucleus; Sensorimotor learning (Joyal, C.C. (739) 1)

Visual evoked potential
Vernier; Apparent motion; Visual cortex (Noss, R.S. (727) 153)

Visual evoked response
Amblyopia; Critical period; Hooded rat; Monocular deprivation; Nerve growth factor (Yan, H.Q. (706) 318)

Visual input
Tectum; Reticular formation; Locomotion; Lamprey (Zompa, I.C. (718) 221)

Visual processing
Superior colliculus; Parabigeminal nucleus; Ferret; Topographical projection; Horseradish peroxidase; Fluorescent microsphere (Jiang, Z.D. (743) 217)

Visual recognition memory
Delayed nonmatching-to-sample; Cognitive impairment; NMDA receptor; Glycine receptor; HA-966; MK-801; Monkey (Matsuoka, N. (731) 72)

Visual system
Zif268; Immediate early gene; Ocular dominance column; Development; Plasticity; Primate (Silveira, L.C.L. (732) 237)

Development; Projection neuron; Optic tectum; Acetylcholine; Cuneiform nucleus (Banfro, F.T. (733) 273)

Retinohypothalamic tract; Suprachiasmatic nucleus; Congenic rat; Albino (Miller, A.M. (741) 348)

Suprachiasmatic nuclei; Circadian system; Photic responsiveness; Entrainment; Neurophysiology (Meijer, J.H. (741) 352)

Lateral geniculate nucleus; Receptive field; Linear/non-linear contrast integration; Second harmonics; Shift effect (Funke, K. (742) 50)

Visuospatial memory
Neuronal activity; Cortex; Right temporal lobe (Holmes, M.D. (711) 44)

Vitamin B_{12}
Circadian rhythm; Non-photic entrainment; Saline; Daily injection; Mouse (Ebihara, S. (727) 31)

Vitamin C
Kainic acid; Ascorbic acid; Allopurinol; Free radical; Neuroprotection; Neurodegeneration (MacGregor, D.G. (727) 133)

VMH
Receptor autoradiography; CCK_B-R; Estrogen; Testosterone; Sex difference (Popper, P. (712) 335)

Volatile anesthetic
Cyclic GMP; Glutamate; Isoflurane; Nitric oxide; Cultured neuron; Rat (Loeb, A.L. (734) 295)

Volkensin
Acetylcholine; Hybridization, in situ; Muscarinic receptor; Neostriatum; Suicide transport (Harrison, M.B. (734) 323)

Voltage clamp
Purinoceptor; CA3; Calcium current; Potentiation (Dave, S. (715) 208)

$GABA_A$ receptor; Lanthanide; Septal neuron; Cultured neuron (Kumamoto, E. (723) 235)

Voltage-dependent sodium channel
Anemone toxin II; Saxitoxin-analog C3 (Castillo, C. (733) 231)

Anemone toxin II; Veratridine (Castillo, C. (733) 243)

Voltage-gated calcium current
Whole-cell patch-clamp; U50488H; CCK-8; L365,260 (Xu, T. (730) 207)

Voltage-sensitive calcium channel
Prostaglandin; Bradykinin; Capsaicin; Nifedipine; ω-Conotoxin; ω-Agatoxin; Release (Evans, A.R. (712) 265)

ω-Conotoxin GVIA; C-fiber; Human sural nerve (Quasthoff, S. (723) 29)

Intracellular Ca^{2+}; Intracellular Mg^{2+}; Hippocampal neuron; Digital imaging microscopy (Zhang, A. (728) 204)

Voltage-sensitive dye
Visual cortex; Neural circuitry; Cooled CCD camera; Optical imaging (Tanifuji, M. (738) 83)

Voltammetry
Mesocorticolimbic dopamine; Infralimbic cortex; SCH 23390; SKF 38393; Sulpiride; Quinpirole; GBR 12909 (Doherty, M.D. (715) 86)

Spinal cord; Glycine; Strychnine; Allodynia; Locus ceruleus; Excitatory amino acid (Milne, B. (718) 198)

Morphine; Withdrawal syndrome; Naloxone; Locus coeruleus; Nitric oxide synthase inhibitor (Hall, S. (739) 182)

Volume regulation
Choroid plexus; Taurine; Hypo-osmotic stress; Calmodulin antagonist; Niflumic acid (Keep, R.F. (715) 17)

Astrocyte; Methylmercury; Sodium; Potassium; Taurine (Vitarella, D. (732) 169)

Voluntary command
Cutaneous afferent; Spinal convergence; Size principle; Segmental reflex; Pain; Human locomotion (Rossi, A. (714) 76)

Vomeronasal organ
Trigeminal ganglion; Sphenopalatine ganglion; Nitric oxide synthase; Neuropeptide; Coexistence; Dual band filter; Mouse (Matsuda, H. (712) 35)

Accessory olfactory bulb; Topographic projection; Receptor neuron; G protein; Signal transduction (Jia, C. (719) 117)

Accessory olfactory system; Calcium-binding protein; Immunohistochemistry; Neurocalcin; Rat (Porteros, A. (729) 82)

Vomeronasal receptor
Lectin; Glycoconjugate; Histochemistry; Olfactory receptor; Olfactory bulb; Microglia; Turtle (Franceschini, V. (725) 81)

W

Wakefulness
Preoptic area; Anterior hypothalamus; Thermosensitive neuron; Thermosensitivity; Non-rapid eye movement sleep (Alam, Md.N. (718) 76)

Waking
Arousal; Light reflectance; Optical imaging; Sleep; Paraventricular hypothalamus; PVH; PVN; REM; Slow wave; Neuroendocrine (Kristensen, M.P. (727) 107)

Apamin; Neurotoxin; Sleep; Insomnia; Ca^{2+}-activated K^+ channel (Gandolfo, G. (736) 344)

Wallerian degeneration
Tyrosine hydroxylase; Transient catecholaminergic neuron; Bed nucleus of stria terminalis; Central amygdaloid nucleus; Immunohistochemistry (Beltramino, C.A. (706) 37)

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Bullfrog
Taste organ; Neuropeptide; Ontogeny; Immunohistochemistry (Kusakabe, T. (96) 285)

Buspirone
Serotonin; Fetal alcohol syndrome; Ethanol; Reuptake; 5-HT_{1A} (Kim, J.-A. (92) 190)

C

trkC
trkB^{TK+}; Cocaine; Striatum; Development; Dopamine D1 receptor; Dopamine D2 receptor; In situ hybridization (Jung, A.B. (94) 133)

CA1
Sodium current; Kinetics; Rate constant; Maturation; Hippocampus (Costa, P.F. (91) 29)

Epilepsy; Afterdischarge; Dentate gyrus; Ontogeny; Extracellular potassium (Stringer, J.L. (91) 136)

Caffeine
In situ hybridization; Brain mapping; Ontogeny; P_1-purinergic receptor (Weaver, D.R. (94) 205)

Calbindin
Immunohistochemistry; Calcium binding protein; Parvalbumin; Development; Human retina (Nag, T.C. (93) 23)

Calbindin-D_{28k}
1,25-Dihydroxyvitamin D_3 receptor; Rat; Fetal; Dorsal root ganglia; Neuron (Johnson, J.A. (92) 120)

Calbindin-D_{28K}
Hypothalamus; Amygdala; Development; Rat; Sexual differentiation; Western analysis (Lephart, E.D. (96) 281)

Calcitonin gene-related peptide
Acetylcholinesterase; Choline acetyltransferase; Enkephalin; Galanin; Galanin message-associated peptide; Rat (Holgert, H. (97) 88)

Substance P; Dorsal root ganglia; Renal chemoreceptors; Retrograde tracing; Fluoro-Gold; Development (Doutova, E.A. (97) 260)

Calcium
Adrenal medulla; Fetus; Hypoxia; Catecholamine; Sheep (Adams, M.B. (94) 182)

Excitotoxicity; Maturation; Hippocampus; Development; Glutamate (Marks, J.D. (97) 194)

Calcium binding protein
Pretectum; LGNd; Retrograde transport; GAD in situ hybridisation; Postnatal development (Reimann, S. (91) 143)

Immunohistochemistry; Calbindin; Parvalbumin; Development; Human retina (Nag, T.C. (93) 23)

Local circuit neuron; Chandelier neuron; Basket neuron; Prefrontal cortex (Condé, F. (96) 261)

Calcium current
Thalamus; Spike bursting; Potassium current; Whole cell recording; Voltage clamp (Perez Velazquez, J.L. (91) 164)

Calcium imaging
Sensory neuron; DRG; Growth cone; Channel cluster (Amato, A. (92) 101)

Calmodulin mRNA
In situ hybridization; Postnatal development; Visual projection (Berry, F.B. (91) 171)

Calpain
Neuroprotection; Hypoxia; Ischemia; Sodium channel; Stroke; Rat pup; Spectrin breakdown (Vartanian, M.G. (95) 169)

Cannabinoids
Anandamide; Antiemetic; Behavior; Development; Ontogeny; Tetrahydrocannabinol (Fride, E. (95) 131)

Capillary
Cerebrovascular circulation; Neonatal development; Rarefaction; Shear stress (Fehér, G. (91) 209)

Caprine β-mannosidosis
Myelin; Hypomyelinating mutant; mRNA; Northern blot; Myelin-associated glycoprotein; Myelin basic protein; Proteolipid protein (Sasaki, M. (91) 131)

Carbon dioxide
Hyperthermia; Rat; Seizure; Hyperpnea; Fever (Morimoto, T. (92) 77)

Carbon monoxide
Heme oxygenase; Hippocampus; Cerebral cortex; Cerebellum; Development (Cook, M.N. (92) 18)

Cardioexcitatory tetrapeptide
FMRFamide; Ontogenesis; Brain; Frog; Immunohistochemistry (D'Aniello, B. (95) 194)

Catecholamine
Biogenic amine; Norepinephrine; Tyrosine hydroxylase; Hypoglossal nucleus; Rat; Tongue; Ontogeny (Aldes, L.D. (91) 83)

Adrenal medulla; Fetus; Hypoxia; Calcium; Sheep (Adams, M.B. (94) 182)

Development; Colocalization; Olfactory placode; Nervus terminalis (Verney, C. (97) 251)

CD44
Cell adhesion; Immunoperoxidase; Müller cells; Photoreceptor; Retina (Chaitin, M.H. (94) 92)

Cell adhesion
CD44; Immunoperoxidase; Müller cells; Photoreceptor; Retina (Chaitin, M.H. (94) 92)

Cell-cell interaction
Synaptogenesis; Terminal differentiation; Maturation gradient; Functional gradient; Red field (Andressen, C. (95) 263)

Cell culture
Neurogenesis; Cerebellum; Transforming growth factor-β2; Neurotrophic factor; Neuroblasts; Neuronal proliferation; DNA synthesis (Kane, C.J.M. (96) 46)

Cell cycle
Astrocytes; Gliosis; Glioma (Li, V. (96) 138)

Programmed cell death; Cyclin D1; RT-PCR; High-potassium medium (Oka, T. (97) 96)

Cell death
Ciliary ganglion; K^+ current; Neuronal differentiation; Trophic factor; Nicotinic antagonist (Subramony, P. (91) 149)

Staggerer; *Lurcher*; Chimera; Cerebellum; Control of cell number (Herrup, K. (96) 28)

Patch mutation; PDGFα receptor; Motoneuron; Mouse embryo (Li, L. (96) 204)

Cell division
Amphibia; Retinal pigment epithelium; [^{3}H]Thymidine (Beazley, L.D. (96) 290)

Cell generation
Nicotinic receptor; Alpha-3 subunit; Alpha-8 subunit; Autoradiography; Immunocytochemistry; [^{3}H]Thymidine (Gardino, P.F. (95) 205)

Cell migration
Olfactory system; Programmed cell death; Cell proliferation; Neurogenesis; Subventricular zone; Subependymal zone (Brunjes, P.C. (92) 219)

Merosin; Myelination; Immunofluorescence; O-2A progenitor (Payne, H.R. (97) 9)

Luteinizing hormone releasing hormone; Olfactory system; Reproduction; Vomeronasal organ; Cribriform plate (Tobet, S.A. (97) 287)

Cell proliferation
Olfactory system; Programmed cell death; Cell migration; Neurogenesis; Subventricular zone; Subependymal zone (Brunjes, P.C. (92) 219)

Cell reaggregation
Olfactory neurons; Central nervous system; Intra-uterus transplantation; Differentiation (Magrassi, L. (96) 11)

Cell sorting
Flow cytometry; Ganglionic eminence; GM1; Striatum (Shindler, K.S. (92) 199)

Cell-substratum adhesion
Drebrin; Adhesion plaque; Actin; Vinculin; Cytochalasin D; Neuron-specific protein; Development (Ikeda, K. (91) 227)

Central nervous system
Muscarinic receptor; Antibody; Immunoprecipitation; Brain; Development (Tice, M.A.B. (92) 70)

Olfactory neurons; Intra-uterus transplantation; Differentiation; Cell reaggregation (Magrassi, L. (96) 11)

Chicken; Gene expression; Growth factor; Molecular cloning; Tyrosine kinase (Holzenberger, M. (97) 76)

Central nervous system (CNS)-specific protein
Neurogenesis; Embryonic development; Two-dimensional polyacrylamide gel electrophoresis; Spinal cord; TOAD-64 (Geschwind, D.H. (97) 62)

Central pattern generator
Development; Locomotion; Spinal cord; Rat; *N*-Methyl-D-aspartate (Ozaki, S. (97) 118)

Cerebellar development
[^{3}H]Thymidine autoradiography; Dopamine; Tyrosine hydroxylase immunocytochemistry; Weaver mutant mouse (Bayer, S.A. (96) 130)

Cerebellar granule cell
Hypoxia-ischemia in utero; Metabotropic glutamate receptor; Phosphoinositide hydrolysis; Quisqualate (Rhodes, P.G. (93) 129)

5-Methylcytidine; Monoclonal antibody; Apoptosis; Potassium (Bertino, L. (95) 38)

GAP-43 mRNA; Cerebellum; Inferior olive; In situ hybridization; Synaptogenesis; Axonal outgrowth; Neuroplasticity; Cerebellar nucleus (Console-Bram, L.M. (95) 97)

NMDA and non-NMDA receptors; Phorbol ester binding; PKC translocation; Developmental change (Barrios, M. (94) 22)

Cerebellar granule neurons
$GABA_A$ receptor; Receptor assembly; Receptor regulation; Subunit-specific antibodies (Nadler, L.S. (97) 216)

Cerebellar nucleus
GAP-43 mRNA; Cerebellum; Inferior olive; In situ hybridization; Synaptogenesis; Axonal outgrowth; Neuroplasticity; Cerebellar granule cell (Console-Bram, L.M. (95) 97)

Cerebellar pattern formation
Engrailed-2 gene; Spinocerebellar mossy fiber; Purkinje cell; Foliation; Homeobox gene; Granule cell (Vogel, M.W. (96) 210)

Cerebellum
Brainstem; Development; Glia; Neuron (Yang, Q. (91) 181)

Heme oxygenase; Carbon monoxide; Hippocampus; Cerebral cortex; Development (Cook, M.N. (92) 18)

Development; Marsupial; Plasticity; Regeneration; Spinal cord (Terman, J.R. (93) 33)

Morphogenesis; Choroid plexus; Neurite outgrowth; Retinoic acid; Retinaldehyde dehydrogenase; Paracrine regulation; Cerebrospinal fluid (Yamamoto, M. (93) 182)

Antioxidant; Glutathione; Cortex; Developmental (Nanda, D. (94) 238)

Granule cell; Purkinje cell; Development; IGF-I; Transgenic mouse (Ye, P. (95) 44)

GAP-43 mRNA; Inferior olive; In situ hybridization; Synaptogenesis; Axonal outgrowth; Neuroplasticity; Cerebellar granule cell; Cerebellar nucleus (Console-Bram, L.M. (95) 97)

Glutamate; γ-Aminobutyric acid; Major histocompatibility complex II; Macrophage (Alliot, F. (95) 140)

Cell death; *Staggerer*; *Lurcher*; Chimera; Control of cell number (Herrup, K. (96) 28)

Neurogenesis; Transforming growth factor-β2; Neurotrophic factor; Neuroblasts; Neuronal proliferation; DNA synthesis; Cell culture (Kane, C.J.M. (96) 46)

Apoptosis; Programmed cell death; Postnatal neurogenesis; Postembryonic development; TUNEL method; Gymnotiformes; Teleostei; Fish; *Apteronotus leptorhynchus* (Soutschek, J. (97) 279)

Cerebral cortex
Heme oxygenase; Carbon monoxide; Hippocampus; Cerebellum; Development (Cook, M.N. (92) 18)

Monosodium glutamate; Hippocampus; Hypothalamus; NMDA receptor; (+)-3-[^{125}I]MK-801 binding (Otoya, R.E. (95) 149)

Protein phosphorylation; Development; Cytoskeleton; Protein kinase; Protein phosphatase (De Mattos-Dutra, Â. (96) 76)

Cerebrospinal fluid
Cerebellum; Morphogenesis; Choroid plexus; Neurite outgrowth; Retinoic acid; Retinaldehyde dehydrogenase; Paracrine regulation (Yamamoto, M. (93) 182)

Cerebrovascular
Mast cells; Differentiation; Phenotype; Protease; Development; Immunohistochemistry; Northern blot analysis; In situ hybridization (Dimitriadou, V. (97) 29)

Cerebrovascular circulation
Capillary; Neonatal development; Rarefaction; Shear stress (Fehér, G. (91) 209)

Cerebrovascular development
Constitutive nitric oxide synthase protein; Immunocytochemistry; Brain development; Sheep (Northington, F.J. (95) 1)

C-ets1
Proto-oncogene; Angiogenesis; Development; Hypothalamic magnocellular nuclei; Hypophysis; Rat; In situ hybridization (Laurent-Huck, F.M. (97) 107)

c-*fos*
Immediate-early gene; Metamphetamine; Development; Striatum; Dopamine (Kasof, G.M. (93) 191)

CGS 21680 binding
Rat striatum; Postnatal development; Adenosine A_{2a} receptor; Autoradiography (Doriat, J.-F. (93) 1)

Chandelier neuron
Calcium-binding protein; Local circuit neuron; Basket neuron; Prefrontal cortex (Condé, F. (96) 261)

Channel cluster
Sensory neuron; DRG; Calcium imaging; Growth cone (Amato, A. (92) 101)

Chick
Axonal cell adhesion molecule; In situ hybridisation; Development; Retina; Ganglion cell; Amacrine cell; Photoreceptor (Morino, P. (91) 252)

Estrogen receptor; Area-specific expression; Brain chimera; Quail; Preoptic area (Gahr, M. (92) 182)

Chicken
Central nervous system; Gene expression; Growth factor; Molecular cloning; Tyrosine kinase (Holzenberger, M. (97) 76)

Child
Adolescent; Corpus callosum; Development; MRI; Myelination; Sex (Giedd, J.N. (91) 274)

Chimera
Genomic imprinting; Parthenogenetic cell; Androgenetic cell; Hypothalamus; Telencephalon; Development (Keverne, E.B. (92) 91)

Cell death; *Staggerer*; *Lurcher*; Cerebellum; Control of cell number (Herrup, K. (96) 28)

Chimeric embryo
GnRH neuron; Migration; Ontogeny; Aves; Terminal nerve; FMRFamide neuron (Yamamoto, N. (95) 234)

Choline acetyltransferase
Acetylcholinesterase; Calcitonin gene-related peptide; Enkephalin; Galanin; Galanin message-associated peptide; Rat (Holgert, H. (97) 88)

Cholinergic
Acetylcholinesterase; Basal forebrain; Cortex; Hippocampus; Target selection (Baratta, J. (97) 143)

Chondroitin sulfate
Glutamate; Glia; Heparan sulfate; Hippocampus; Protein kinase C (Chisamore, B. (97) 22)

Choroid plexus
Cerebellum; Morphogenesis; Neurite outgrowth; Retinoic acid; Retinaldehyde dehydrogenase; Paracrine regulation; Cerebrospinal fluid (Yamamoto, M. (93) 182)

Chromaffin cell
Neurotrophin; Cytokine; Sensory neuron; Target-derived neurotrophic factor (Krieglstein, K. (93) 10)

Ciliary ganglion
K^+ current; Neuronal differentiation; Trophic factor; Nicotinic antagonist; Cell death (Subramony, P. (91) 149)

Cocaine
S-100; GAP-43; BrdU; Vimentin; Gliogenesis; Prenatal (Clarke, C. (91) 268)

Hippocampus; Long-term potentiation; Pregnancy; Rabbit; Neurophysiology (Little, J.Z. (92) 117)

*Zif*268; D1 receptor; D2 receptor; Striatum; Development; In situ hybridization (Jung, A.B. (94) 121)

$trkB^{TK+}$; trkC; Striatum; Development; Dopamine D1 receptor; Dopamine D2 receptor; In situ hybridization (Jung, A.B. (94) 133)

Dopamine; Receptor; Transporter; mRNA; Fetal monkey brain; Ribonuclease protection assay (Choi, W.S. (96) 249)

Cocaine receptor
Dopamine uptake; Ontogeny; Striatum; RTI-55; Dopamine neuron (Coulter, C.L. (92) 172)

Cochlear nucleus
Mouse; Cochlear pathology; Auditory neuron (Willott, J.F. (91) 218)

Cochlear pathology
Mouse; Cochlear nucleus; Auditory neuron (Willott, J.F. (91) 218)

Cochleovestibular ganglion
Otocyst; In vitro; Antinsense oligonucleotide; Neurotrophin; Neuronal survival; Neuritogenesis; Neurite guidance (Staecker, H. (92) 49)

Coculture
Immunofluorescence; Neurofilament subunit; Patch-clamp; Embryonic neurons; Maturation (Steinschneider, R. (95) 15)

Colocalization
Development; Olfactory placode; Nervus terminalis; Catecholamine (Verney, C. (97) 251)

Compartment
Striatum; Retrograde tracing; Substantia nigra; Development (Van der Kooy, D. (94) 242)

Compensatory neural growth
Olfactory epithelium; Olfactory receptor maturation; Olfactory neural development; Thyroid hormones; Thyroid and neural development; Developmental plasticity; Recovery from neural retardation; Neuronal maturation (Paternostro, M.A. (96) 173)

Concussion
Brain injury; Fluid percussion; Development; Intracranial pressure; Mean arterial blood pressure (Prins, M.L. (95) 272)

Cone photoreceptor
Retinal development; GABA; GABA-A receptor; Horizontal cell (Mitchell, C.K. (95) 63)

Congenic strain
Autoimmunity; Cortical ectopia; Discrimination learning; Embryo transfer; Lashley maze; Morris maze; Spatial learning; Y chromosome (Denenberg, V.H. (93) 100)

Connexin43
Slice culture; Gap junction; Astrocytes; Neurons (Perez Velazquez, J.L. (97) 293)

Constitutive nitric oxide synthase protein
Immunocytochemistry; Brain development; Sheep; Cerebrovascular development (Northington, F.J. (95) 1)

Control of cell number
Cell death; *Staggerer*; *Lurcher*; Chimera; Cerebellum (Herrup, K. (96) 28)

Corpus callosum
Adolescent; Child; Development; MRI; Myelination; Sex (Giedd, J.N. (91) 274)

Apoptosis; Macrophage; Pyknosis; Cortical plate; Subplate; Intermediate zone; Ventricular zone (Johnson, J.K. (94) 159)

Testosterone; Prenatal; Postnatal; Sex; Testosterone surge (Mack, C.M. (95) 252)

Cortex
Receptor ontogeny (melanotropic peptides); α-Melanocyte stimulating hormone; Thalamus; Striatum; Cranial nerve nuclei ganglia; Sympathetic ganglia (Lichtensteiger, W. (91) 93)

Antioxidant; Glutathione; Cerebellum; Developmental (Nanda, D. (94) 238)

Acetylcholinesterase; Basal forebrain; Cholinergic; Hippocampus; Target selection (Baratta, J. (97) 143)

Cortical ectopia
Autoimmunity; Congenic strain; Discrimination learning; Embryo transfer; Lashley maze; Morris maze; Spatial learning; Y chromosome (Denenberg, V.H. (93) 100)

Cortical plate
Apoptosis; Corpus callosum; Macrophage; Pyknosis; Subplate; Intermediate zone; Ventricular zone (Johnson, J.K. (94) 159)

Corticospinal tract
Neural cell adhesion molecule; Growth cone; Guidance; Pyramidal tract; L1 ; Tract formation (Joosten, E.A.J. (94) 99)

Corticosterone
ACTH; Development; Kainic acid; NMDA; Ontogeny; Stress hyporesponsive period (Kent, S. (94) 1)

Corticosterone receptor
Ontogeny; HPA-axis; Dopamine system; Selection line (Rots, N.Y. (92) 164)

Corticostriatal
AMPA receptor; NMDA receptor; Patch/matrix organization; Development (Snyder-Keller, A. (94) 246)

Corticotropin releasing hormone
Receptor; Messenger RNA; Amygdala; Hippocampus; Development; Rat (Avishai-Eliner, S. (91) 159)

Cortisone
Microglia; Glial fibrillary acidic protein; Neonatal; Brain damage; Ischemia; Hypoxia (McRae, A. (94) 44)

COUP-TF
Retinoic acid; Nuclear hormone receptors; Mouse (Brubaker, K. (93) 198)

Cranial nerve nuclei ganglia
Receptor ontogeny (melanotropic peptides); α-Melanocyte stimulating hormone; Cortex; Thalamus; Striatum; Sympathetic ganglia (Lichtensteiger, W. (91) 93)

Cribriform plate
Luteinizing hormone releasing hormone; Olfactory system; Reproduction; Cell migration; Vomeronasal organ (Tobet, S.A. (97) 287)

Culture
Inter-strain variability; Sex difference; Genotype; Sex steroid; Dopamine uptake; HPLC; Tyrosine hydroxylase immunocytochemistry (Sibug, R. (93) 136)

Axon; Entorhinal cortex; Hippocampus; Tract tracing (Woodhams, P.L. (95) 144)

Cyclic AMP
Down syndrome; Partial trisomy 16; Hippocampus (Dierssen, M. (95) 122)

Cyclin D1
Cell cycle; Programmed cell death; RT-PCR; High-potassium medium (Oka, T. (97) 96)

Cyclooxygenase
Prostaglandin-H synthase; Prostaglandin; Sheep; Development; Fetus; Brain; Fetal breathing (Norton, J.L. (95) 79)

Cytochalasin D
Drebrin; Adhesion plaque; Actin; Vinculin; Cell-substratum adhesion; Neuron-specific protein; Development (Ikeda, K. (91) 227)

Cytokine
Neurotrophin; Sensory neuron; Chromaffin cell; Target-derived neurotrophic factor (Krieglstein, K. (93) 10)

Cytoplasmic dynein
Thyroid hormone; Trophic factor; Dorsal root ganglion cell culture; Microtubule-associated protein; Tubulin (Barakat-Walter, I. (96) 109)

Cytoskeleton
Protein phosphorylation; Development; Cerebral cortex; Protein kinase; Protein phosphatase (De Mattos-Dutra, Â. (96) 76)

D

DARPP-32
Striatum; Substance P receptor; Ontogeny; Patch-matrix compartment; Projection neuron; Intrinsic neuron; Dopamine (Tokuno, H. (95) 107)

Dendrite growth
Neocortical development; Pyramidal cell differentiation; Ganglioside localization; Ganglioside function (Goodman, L.A. (93) 162)

Dendritic length
Dorsal root; TMPase; BHRP; Soma size (Goldstein, L.A. (91) 11)

Dorsal root; Steroid hormone; TMPase; BHRP; Soma size (Hays, T.C. (91) 20)

Dentate gyrus
Epilepsy; Afterdischarge; Ontogeny; CA1; Extracellular potassium (Stringer, J.L. (91) 136)

Mossy fiber; Hippocampal slice culture; Stratum lucidum; Axon guidance; Development (Nguyen, L.B. (95) 184)

Long-term depression; Synaptic plasticity; Developing brain (Trommer, B.L. (96) 97)

2-Deoxy-glucose
Vibrissae; Trigemino-thalamic system; Development (Wu, C.-C. (96) 295)

Developing brain
Long-term depression; Dentate gyrus; Synaptic plasticity (Trommer, B.L. (96) 97)

Development
Swine; Hypothalamus; Immunohistochemistry; Arcuate nucleus (Pearson, P.L. (91) 41)

Hypoxia; Rat; Patch clamp; Respiration; Ventrolateral medulla (Nolan, P.C. (91) 111)

GluR6; Kainate receptor; mRNA editing; Rat brain; Tissue culture (Schmitt, J. (91) 153)

Corticotropin releasing hormone; Receptor; Messenger RNA; Amygdala; Hippocampus; Rat (Avishai-Eliner, S. (91) 159)

Brainstem; Cerebellum; Glia; Neuron (Yang, Q. (91) 181)

Drebrin; Adhesion plaque; Actin; Vinculin; Cytochalasin D; Cell-substratum adhesion; Neuron-specific protein (Ikeda, K. (91) 227)

Migration; GnRH; Olfactory; Thalamus; Quail–chick chimera (Gao, C. (91) 237)

Axonal cell adhesion molecule; In situ hybridisation; Retina; Chick; Ganglion cell; Amacrine cell; Photoreceptor (Morino, P. (91) 252)

Adolescent; Child; Corpus callosum; MRI; Myelination; Sex (Giedd, J.N. (91) 274)

NMDA receptor; NR1 subunit; Fusion protein; Antibody; Quantitative immunoblot (Luo, J. (92) 10)

Heme oxygenase; Carbon monoxide; Hippocampus; Cerebral cortex; Cerebellum (Cook, M.N. (92) 18)

Muscarinic receptor; Antibody; Immunoprecipitation; Brain; Central nervous system (Tice, M.A.B. (92) 70)

Dorsal horn; Primary afferent input (Coggeshall, R.E. (92) 81)

Genomic imprinting; Chimera; Parthenogenetic cell; Androgenetic cell; Hypothalamus; Telencephalon (Keverne, E.B. (92) 91)

Swine; Hypothalamus; Immunohistochemistry; Median eminence (Pearson, P.L. (92) 125)

IGF; IGFBP-5; Nervous system; Schwann cell; Purkinje cell; Immunohistochemistry (Cheng, H.-L. (92) 211)

Immunohistochemistry; Calcium binding protein; Calbindin; Parvalbumin; Human retina (Nag, T.C. (93) 23)

Cerebellum; Marsupial; Plasticity; Regeneration; Spinal cord (Terman, J.R. (93) 33)

Long-term potentiation; Phospholipase; Synaptoneurosome; Glutamate receptor (Chabot, C. (93) 70)

Diffusion; Diffusion-weighted NMR imaging; Excitotoxicity; Extracellular space; Neonatal rat; *N*-Methyl-D-aspartate
(Van Lookeren Campagne, M. (93) 109)

Age; Hypoxia-ischemia; Stroke; Brain damage (Yager, J.Y. (93) 143)

c-*fos*; Immediate-early gene; Metamphetamine; Striatum; Dopamine (Kasof, G.M. (93) 191)

ACTH; Corticosterone; Kainic acid; NMDA; Ontogeny; Stress hyporesponsive period (Kent, S. (94) 1)

Hippocampus; Epileptogenesis; 4-Aminopyridine; Immature; Rat (Psarropoulou, C. (94) 52)

Dopamine; Striatum; D1 receptor; D2 receptor; Receptor autoradiography; In situ hybridization (Jung, A.B. (94) 109)

*Zif*268; D1 receptor; D2 receptor; Striatum; Cocaine; In situ hybridization (Jung, A.B. (94) 121)

$trkB^{TK+}$; trkC; Cocaine; Striatum; Dopamine D1 receptor; Dopamine D2 receptor; In situ hybridization (Jung, A.B. (94) 133)

Motoneuron; Nerve-muscle interaction; Activity; Paralysis; Motor unit (Greensmith, L. (94) 152)

Prefrontal cortex; 6-Hydroxydopamine; Noradrenaline; Gamma-aminobutyric acid; Behavior (Podkletnova, I. (94) 197)

Estrogen receptor; Preoptic area; Sexual differentiation; Tamoxifen; Diethylstilbestrol; Intrauterine association (DonCarlos, L.L. (94) 224)

Striatum; Compartment; Retrograde tracing; Substantia nigra (Van der Kooy, D. (94) 242)

AMPA receptor; NMDA receptor; Patch/matrix organization; Corticostriatal (Snyder-Keller, A. (94) 246)

Cerebellum; Granule cell; Purkinje cell; IGF-I; Transgenic mouse (Ye, P. (95) 44)

Auditory pathway; Superior olivary complex; Fluoro-gold; Laterality of projection; Thymidine analogue; Neurogenesis (Kudo, M. (95) 72)

Prostaglandin-H synthase; Cyclooxygenase; Prostaglandin; Sheep; Fetus; Brain; Fetal breathing (Norton, J.L. (95) 79)

Anandamide; Antiemetic; Behavior; Cannabinoids; Ontogeny; Tetrahydrocannabinol (Fride, E. (95) 131)

Ensheathing cell; Olfactory epithelium; Axogenesis; Axon growth; Migration (Tennent, R. (95) 135)

Swine; Hypothalamus; Immunohistochemistry; Median eminence; Organum vasculosum of the lamina terminalis (Pearson, P.L. (95) 157)

Albino; Mitosis (Ilia, M. (95) 176)

Mossy fiber; Hippocampal slice culture; Dentate gyrus; Stratum lucidum; Axon guidance (Nguyen, L.B. (95) 184)

Efferent; Synaptogenesis; Inner ear; Hamster (Simmons, D.D. (95) 213)

Brain; Song control nucleus; Synaptogenesis; GAP-43; Immunofluorescence; Zebra finch (Sakaguchi, H. (95) 245)

Brain injury; Fluid percussion; Concussion; Intracranial pressure; Mean arterial blood pressure (Prins, M.L. (95) 272)

Protein phosphorylation; Cerebral cortex; Cytoskeleton; Protein kinase; Protein phosphatase (De Mattos-Dutra, Â. (96) 76)

Reissner's fiber; Subcommissural organ; Primary culture; Neuronal aggregation (Monnerie, H. (96) 120)

c-*Fos*; Dopamine; D1 receptor; Muscarinic receptor; 6-OHDA; Striatum; Immunohistochemistry; Scopolamine; SKF 38393 (Sandstrom, M.I. (96) 148)

NO-synthase; Histoenzymology; Tyrosine hydroxylase; Immunocytochemistry (Samama, B. (96) 192)

Blood-brain barrier; Tight junction; Freeze-fracture (Kniesel, U. (96) 229)

Locus coeruleus; Immunohistochemistry; Noradrenergic neuron; Adrenergic terminal; Anti-tyrosine hydroxylase serum; Anti-phenylethanolamine *N*-methyltransferase serum; Rat (Saito, N. (96) 241)

Hypothalamus; Amygdala; Calbindin-D_{28K}; Rat; Sexual differentiation; Western analysis (Lephart, E.D. (96) 281)

2-Deoxy-glucose; Vibrissae; Trigeminothalamic system (Wu, C.-C. (96) 295)

Obesity; Paraventricular nucleus; Dopamine-β-hydroxylase; Insulin; Differentiation (Jones, A.P. (97) 16)

Mast cells; Cerebrovascular; Differentiation; Phenotype; Protease; Immunohistochemistry; Northern blot analysis; In situ hybridization (Dimitriadou, V. (97) 29)

Visual system; Activity dependence; Plasticity; Ponto-geniculo-occipital wave; Monocular occlusion; Lateral geniculate nucleus (Oksenberg, A. (97) 51)

C-ets1; Proto-oncogene; Angiogenesis; Hypothalamic magnocellular nuclei; Hypophysis; Rat; In situ hybridization (Laurent-Huck, F.M. (97) 107)

Central pattern generator; Locomotion; Spinal cord; Rat; *N*-Methyl-D-aspartate (Ozaki, S. (97) 118)

Spinal cord; Dorsal root ganglion; Lateral motor column; Ia afferent; Synaptic connectivity (Eide, A.L. (97) 126)

Excitotoxicity; Maturation; Hippocampus; Calcium; Glutamate (Marks, J.D. (97) 194)

Guanylyl cyclase; Hybridization, in situ; mRNA differential display (Smigrodzki, R. (97) 226)

Colocalization; Olfactory placode; Nervus terminalis; Catecholamine (Verney, C. (97) 251)

Substance P; Calcitonin gene-related peptide; Dorsal root ganglia; Renal chemoreceptors; Retrograde tracing; FluoroGold (Doutova, E.A. (97) 260)

Nerve growth factor; Brain-derived neurotrophic factor; Enzyme immunoassay; Rat (Zhou, J. (97) 297)

Developmental
Antioxidant; Glutathione; Cortex; Cerebellum (Nanda, D. (94) 238)

Developmental change
Glutamate receptor channel δ2 subunit; Purkinje cell; Synapse formation; In situ hybridization; Immunohistochemistry (Takayama, C. (92) 147)

NMDA and non-NMDA receptors; Phorbol ester binding; PKC translocation; Cerebellar granule cells (Barrios, M. (94) 22)

Developmental plasticity
Olfactory epithelium; Olfactory receptor maturation; Olfactory neural development; Thyroid hormones; Thyroid and neural development; Recovery from neural retardation; Compensatory neural growth; Neuronal maturation (Paternostro, M.A. (96) 173)

Developmental study
Retinal ganglion cell; Bifurcating axon; Bilateral projection; Dorsal lateral geniculate nucleus; Fluorescent tracer; Double labeling (Dong, K. (95) 55)

Dexamethasone, effects on serotonin transporter
Glucocorticoids, effects on serotonin transporter; Paroxetine, binding to serotonin transporter; Serotonin transporter, development (Slotkin, T.A. (93) 155)

Diethylstilbestrol
Estrogen receptor; Preoptic area; Sexual differentiation; Development; Tamoxifen; Intrauterine association (DonCarlos, L.L. (94) 224)

Differentiation
Dopamine; Growth factor; Tyrosine hydroxylase; Tissue culture; GABA (Max, S.R. (91) 140)

Striate cortex; Ontogeny; Blockade of spontaneous activity; In vitro; Protein blot (Kierstein, G. (92) 39)

Neural crest; Neuroblastoma; Stem cell; RT4; Rat; cAMP; Peripheral nervous system (Donahue, L.M. (94) 67)

Olfactory neurons; Central nervous system; Intra-uterus transplantation; Cell reaggregation (Magrassi, L. (96) 11)

Obesity; Paraventricular nucleus; Dopamine-β-hydroxylase; Development; Insulin (Jones, A.P. (97) 16)

Mast cells; Cerebrovascular; Phenotype; Protease; Development; Immunohistochemistry; Northern blot analysis; In situ hybridization (Dimitriadou, V. (97) 29)

Diffusion
Development; Diffusion-weighted NMR imaging; Excitotoxicity; Extracellular space; Neonatal rat; *N*-Methyl-D-aspartate (Van Lookeren Campagne, M. (93) 109)

Diffusion-weighted NMR imaging
Development; Diffusion; Excitotoxicity; Extracellular space; Neonatal rat; *N*-Methyl-D-aspartate (Van Lookeren Campagne, M. (93) 109)

L-β-3,4-Dihydroxyphenylalanine
3-Hydroxybenzylhydrazine dihydrochloride; NSD 1015; Locomotion; Activity; Ontogeny (Arnaiz, C.O. (94) 234)

1,25-Dihydroxyvitamin D_3 receptor
Rat; Fetal; Dorsal root ganglia; Neuron; Calbindin-D_{28k} (Johnson, J.A. (92) 120)

Discrimination learning
Autoimmunity; Congenic strain; Cortical ectopia; Embryo transfer; Lashley maze; Morris maze; Spatial learning; Y chromosome (Denenberg, V.H. (93) 100)

cDNA cloning
Gene expression; Brain development; Embryonic brain (Usui, H. (97) 185)

DNA fragmentation
Apoptosis; Programmed cell death; TUNEL; Retina; Microglia; Müller cells (Egensperger, R. (97) 1)

DNA synthesis
Neurogenesis; Cerebellum; Transforming growth factor-β2; Neurotrophic factor; Neuroblasts; Neuronal proliferation; Cell culture (Kane, C.J.M. (96) 46)

Dopamine
Differentiation; Growth factor; Tyrosine hydroxylase; Tissue culture; GABA (Max, S.R. (91) 140)

c-*fos*; Immediate-early gene; Metamphetamine; Development; Striatum (Kasof, G.M. (93) 191)

Striatum; D1 receptor; D2 receptor; Development; Receptor autoradiography; In situ hybridization (Jung, A.B. (94) 109)

Striatum; Substance P receptor; Ontogeny; Patch-matrix compartment; Projection neuron; Intrinsic neuron; DARPP-32 (Tokuno, H. (95) 107)

Acetylcholine; Methadone; Perinatal; Rat; Serotonin (Robinson, S.E. (95) 118)

[^{3}H]Thymidine autoradiography; Cerebellar development; Tyrosine hydroxylase immunocytochemistry; Weaver mutant mouse (Bayer, S.A. (96) 130)

c-*Fos*; D1 receptor; Muscarinic receptor; 6-OHDA; Development; Striatum; Immunohistochemistry; Scopolamine; SKF 38393 (Sandstrom, M.I. (96) 148)

Receptor; Transporter; mRNA; Cocaine; Fetal monkey brain; Ribonuclease protection assay (Choi, W.S. (96) 249)

Dopamine-β-hydroxylase
Obesity; Paraventricular nucleus; Development; Insulin; Differentiation (Jones, A.P. (97) 16)

Dopamine D1 receptor
trkB^{TK+}; trkC; Cocaine; Striatum; Development; Dopamine D2 receptor; In situ hybridization (Jung, A.B. (94) 133)

Dopamine D2 receptor
trkB^{TK+}; trkC; Cocaine; Striatum; Development; Dopamine D1 receptor; In situ hybridization (Jung, A.B. (94) 133)

Dopamine neuron
Dopamine uptake; Ontogeny; Striatum; Cocaine receptor; RTI-55 (Coulter, C.L. (92) 172)

Dopamine receptor
Neonatal hypoxia-ischemia; Ontogeny; D_1 receptor; D_2 receptor; In situ hybridization; Receptor autoradiography; Striatum; Plasticity (Filloux, F.M. (94) 81)

Dopamine system
Ontogeny; HPA-axis; Selection line; Corticosterone receptor (Rots, N.Y. (92) 164)

Dopamine uptake
Ontogeny; Striatum; Cocaine receptor; RTI-55; Dopamine neuron (Coulter, C.L. (92) 172)

Inter-strain variability; Sex difference; Culture; Genotype; Sex steroid; HPLC; Tyrosine hydroxylase immunocytochemistry (Sibug, R. (93) 136)

Dorsal horn
Development; Primary afferent input (Coggeshall, R.E. (92) 81)

Dorsal lateral geniculate nucleus
Retinal ganglion cell; Bifurcating axon; Bilateral projection; Fluorescent tracer; Double labeling; Developmental study (Dong, K. (95) 55)

Dorsal root
TMPase; BHRP; Dendritic length; Soma size (Goldstein, L.A. (91) 11)

Steroid hormone; TMPase; BHRP; Dendritic length; Soma size (Hays, T.C. (91) 20)

Dorsal root ganglia
1,25-Dihydroxyvitamin D_3 receptor; Rat; Fetal; Neuron; Calbindin-D_{28k} (Johnson, J.A. (92) 120)

Substance P; Calcitonin gene-related peptide; Renal chemoreceptors; Retrograde tracing; FluoroGold; Development (Doutova, E.A. (97) 260)

Dorsal root ganglion
Spinal cord; Lateral motor column; Ia afferent; Synaptic connectivity; Development (Eide, A.L. (97) 126)

Dorsal root ganglion cell culture
Thyroid hormone; Trophic factor; Microtubule-associated protein; Cytoplasmic dynein; Tubulin (Barakat-Walter, I. (96) 109)

Double labeling
Retinal ganglion cell; Bifurcating axon; Bilateral projection; Dorsal lateral geniculate nucleus; Fluorescent tracer; Developmental study (Dong, K. (95) 55)

Somatostatin; BrdU; Proliferation; Neurogenesis; Prepacemaker nucleus; Electric fish; Gymnotiformes; *Apteronotus leptorhynchus* (Stroh, T. (93) 76)

Double labelling immunofluorescence
Brain capillary; Brain maturation; Tight barrier structure; Non-barrier structure (Zeller, K. (91) 200)

Downregulation
μ-Opioid receptor; Prenatal stress; Offspring (Sanchez, M.D. (94) 14)

Down syndrome
Partial trisomy 16; Hippocampus; Cyclic AMP (Dierssen, M. (95) 122)

192 IgG-saporin; Acetylcholine; Brain development; Spatial learning/memory; Hippocampus; Sympathetic ingrowth; Rett syndrome (Pappas, B.A. (96) 52)

Drebrin
Adhesion plaque; Actin; Vinculin; Cytochalasin D; Cell-substratum adhesion; Neuron-specific protein; Development (Ikeda, K. (91) 227)

D_1 receptor
Neonatal hypoxia-ischemia; Ontogeny; Dopamine receptor; D_2 receptor; In situ hybridization; Receptor autoradiography; Striatum; Plasticity (Filloux, F.M. (94) 81)

D_2 receptor
Neonatal hypoxia-ischemia; Ontogeny; Dopamine receptor; D_1 receptor; In situ hybridization; Receptor autoradiography; Striatum; Plasticity (Filloux, F.M. (94) 81)

D1 receptor
Dopamine; Striatum; D2 receptor; Development; Receptor autoradiography; In situ hybridization (Jung, A.B. (94) 109)

*Zif*268; D2 receptor; Striatum; Development; Cocaine; In situ hybridization (Jung, A.B. (94) 121)

c-*Fos*; Dopamine; Muscarinic receptor; 6-OHDA; Development; Striatum; Immunohistochemistry; Scopolamine; SKF 38393 (Sandstrom, M.I. (96) 148)

D2 receptor
Dopamine; Striatum; D1 receptor; Development; Receptor autoradiography; In situ hybridization (Jung, A.B. (94) 109)

*Zif*268; D1 receptor; Striatum; Development; Cocaine; In situ hybridization (Jung, A.B. (94) 121)

Dreher mouse
Mossy fiber; Pyramidal cell; Hippocampal formation; Timm staining; Golgi impregnation (Sekiguchi, M. (92) 31)

DRG
Sensory neuron; Calcium imaging; Growth cone; Channel cluster (Amato, A. (92) 101)

Dystonia
Kynurenic acid; Kynurenine; Excitatory amino acid system; Movement disorder; Hamster (Richter, A. (92) 111)

Dystrophin
Human fetal muscle; Dystrophin-associated glycoprotein; Utrophin; Membrane cytoskeletal protein; β-Spectrin; Vinculin; Talin (Mora, M. (91) 70)

Dystrophin-associated glycoprotein
Human fetal muscle; Dystrophin; Utrophin; Membrane cytoskeletal protein; β-Spectrin; Vinculin; Talin (Mora, M. (91) 70)

E

Efferent
Synaptogenesis; Development; Inner ear; Hamster (Simmons, D.D. (95) 213)

Electric fish
Somatostatin; BrdU; Double labelling; Proliferation; Neurogenesis; Prepacemaker nucleus; Gymnotiformes; *Apteronotus leptorhynchus* (Stroh, T. (93) 76)

Embryonic brain
Gene expression; cDNA cloning; Brain development (Usui, H. (97) 185)

Embryonic development
Neurogenesis; Two-dimensional polyacrylamide gel electrophoresis; Spinal cord; Central nervous system (CNS)-specific protein; TOAD-64 (Geschwind, D.H. (97) 62)

Embryonic neurons
Immunofluorescence; Neurofilament subunit; Patch-clamp; Coculture; Maturation (Steinschneider, R. (95) 15)

Embryonic stem cell
Neuronal differentiation; Retinoic acid; Phosphotyrosine phosphatase alpha; Patch clamp; Voltage clamp; Active current; Neurotransmitter (Van Inzen, W.G. (91) 304)

Embryo transfer
Autoimmunity; Congenic strain; Cortical ectopia; Discrimination learning; Lashley maze; Morris maze; Spatial learning; Y chromosome (Denenberg, V.H. (93) 100)

Energy metabolism
Hippocampal slice; Long-term incubation; Ontogeny; Ischemia; Protein synthesis (Berger, R. (91) 281)

Engrailed-2 gene
Cerebellar pattern formation; Spinocerebellar mossy fiber; Purkinje cell; Foliation; Homeobox gene; Granule cell (Vogel, M.W. (96) 210)

Enkephalin
Acetylcholinesterase; Calcitonin gene-related peptide; Choline acetyltransferase; Galanin; Galanin message-associated peptide; Rat (Holgert, H. (97) 88)

Ensheathing cell
Olfactory epithelium; Axogenesis; Axon growth; Migration; Development (Tennent, R. (95) 135)

Entorhinal cortex
Axon; Culture; Hippocampus; Tract tracing (Woodhams, P.L. (95) 144)

Enzyme immunoassay
Nerve growth factor; Brain-derived neurotrophic factor; Development; Rat (Zhou, J. (97) 297)

Epidermal growth factor
Neurogenesis; Growth factor; Mitogen; Neurotrophin 3; Vasoactive intestinal peptide; Insulin; Sympathetic neuroblasts (Lu, N. (94) 31)

Epilepsy
Afterdischarge; Dentate gyrus; Ontogeny; CA1; Extracellular potassium (Stringer, J.L. (91) 136)

Infant; Rat; Hippocampus (Ribak, C.E. (91) 245)

Seizure; Status epilepticus; Brain damage; Pilocarpine; Animal model; Behavioral test (Tandon, P. (95) 256)

Seizures; Glutamate; Brain damage; Recurrent seizures; Animal model (Liu, Z. (97) 178)

Epileptogenesis
Development; Hippocampus; 4-Aminopyridine; Immature; Rat (Psarropoulou, C. (94) 52)

Estrogen receptor
Perinatal development; Sexual differentiation; Hypothalamus; Rat; Immunohistochemistry (Pasterkamp, R.J. (91) 300)

Area-specific expression; Brain chimera; Quail; Chick; Preoptic area (Gahr, M. (92) 182)

Preoptic area; Sexual differentiation; Development; Tamoxifen; Diethylstilbestrol; Intrauterine association (DonCarlos, L.L. (94) 224)

Ethanol
Serotonin; Fetal alcohol syndrome; Buspirone; Reuptake; 5-HT_{1A} (Kim, J.-A. (92) 190)

Serotonin; Fetal alcohol syndrome; Astroglia; Neurotrophic factor (Kim, J.-A. (96) 1)

Evolution
Iron histochemistry; Oligodendrocyte; Glia; Myelin; Neuron (Erb, G.L. (93) 120)

Excitatory amino acid system
Kynurenic acid; Kynurenine; Movement disorder; Dystonia; Hamster (Richter, A. (92) 111)

Excitotoxicity
Development; Diffusion; Diffusion-weighted NMR imaging; Extracellular space; Neonatal rat; *N*-Methyl-D-aspartate
(Van Lookeren Campagne, M. (93) 109)

Maturation; Hippocampus; Calcium; Development; Glutamate (Marks, J.D. (97) 194)

Extracellular potassium
Epilepsy; Afterdischarge; Dentate gyrus; Ontogeny; CA1 (Stringer, J.L. (91) 136)

Extracellular space
Development; Diffusion; Diffusion-weighted NMR imaging; Excitotoxicity; Neonatal rat; *N*-Methyl-D-aspartate
(Van Lookeren Campagne, M. (93) 109)

F

Facilitated-diffusion glucose transporter
GLUT3; Rat retina; Neuron; Glucose homeostasis (Watanabe, T. (94) 60)

Facilitation
Hippocampus; Inhibition; Feed-forward; Feedback; GABA; Interneuron (Bronzino, J.D. (96) 277)

Fastigial nucleus
Granule cell; Immunohistochemistry; Purkinje cell maturation; Signal transduction; *src* protooncogene (Chen, S. (92) 140)

Feed-back
Hippocampus; Inhibition; Facilitation; Feed-forward; GABA; Interneuron (Bronzino, J.D. (96) 277)

Feed-forward
Hippocampus; Inhibition; Facilitation; Feedback; GABA; Interneuron (Bronzino, J.D. (96) 277)

Fetal
1,25-Dihydroxyvitamin D_3 receptor; Rat; Dorsal root ganglia; Neuron; Calbindin-D_{28k} (Johnson, J.A. (92) 120)

Fetal alcohol syndrome
Serotonin; Ethanol; Buspirone; Reuptake; 5-HT_{1A} (Kim, J.-A. (92) 190)

Serotonin; Ethanol; Astroglia; Neurotrophic factor (Kim, J.-A. (96) 1)

Fetal brain
Growth cone; Axon; Subcellular fractionation; Biochemical markers; Neurite growth (Lohse, K. (96) 83)

Fetal breathing
Prostaglandin-H synthase; Cyclooxygenase; Prostaglandin; Sheep; Development; Fetus; Brain (Norton, J.L. (95) 79)

Fetal monkey brain
Dopamine; Receptor; Transporter; mRNA; Cocaine; Ribonuclease protection assay (Choi, W.S. (96) 249)

Fetal valproate syndrome
Neuroteratogenicity; Whole embryo culture; Whole mount immunostaining (Gofflot, F. (93) 62)

Fetus
Adrenal medulla; Hypoxia; Catecholamine; Calcium; Sheep (Adams, M.B. (94) 182)

Prostaglandin-H synthase; Cyclooxygenase; Prostaglandin; Sheep; Development; Brain; Fetal breathing (Norton, J.L. (95) 79)

Fever
Carbon dioxide; Hyperthermia; Rat; Seizure; Hyperpnea (Morimoto, T. (92) 77)

Fish
Apoptosis; Programmed cell death; Postnatal neurogenesis; Postembryonic development; Cerebellum; TUNEL method; Gymnotiformes; Teleostei; *Apteronotus leptorhynchus* (Soutschek, J. (97) 279)

Flexural organ
Floor plate; Subcommissural organ; Serotonergic neurons; Immunocytochemistry (Rodríguez, E.M. (97) 153)

Floor plate
Subcommissural organ; Flexural organ; Serotonergic neurons; Immunocytochemistry (Rodríguez, E.M. (97) 153)

Flow cytometry
Cell sorting; Ganglionic eminence; GM1; Striatum (Shindler, K.S. (92) 199)

Fluid percussion
Brain injury; Concussion; Development; Intracranial pressure; Mean arterial blood pressure (Prins, M.L. (95) 272)

Fluorescent tracer
Retinal ganglion cell; Bifurcating axon; Bilateral projection; Dorsal lateral geniculate nucleus; Double labeling; Developmental study (Dong, K. (95) 55)

Fluoro-gold
Auditory pathway; Superior olivary complex; Development; Laterality of projection; Thymidine analogue; Neurogenesis (Kudo, M. (95) 72)

FluoroGold
Substance P; Calcitonin gene-related peptide; Dorsal root ganglia; Renal chemoreceptors; Retrograde tracing; Development (Doutova, E.A. (97) 260)

FMRFamide
Cardioexcitatory tetrapeptide; Ontogenesis; Brain; Frog; Immunohistochemistry (D'Aniello, B. (95) 194)

FMRFamide neuron
GnRH neuron; Migration; Ontogeny; Chimeric embryo; Aves; Terminal nerve (Yamamoto, N. (95) 234)

Foliation
Cerebellar pattern formation; *Engrailed-2* gene; Spinocerebellar mossy fiber; Purkinje cell; Homeobox gene; Granule cell (Vogel, M.W. (96) 210)

c-*Fos*
Dopamine; D1 receptor; Muscarinic receptor; 6-OHDA; Development; Striatum; Immunohistochemistry; Scopolamine; SKF 38393 (Sandstrom, M.I. (96) 148)

Freeze-fracture
Blood-brain barrier; Development; Tight junction (Kniesel, U. (96) 229)

Frog
FMRFamide; Cardioexcitatory tetrapeptide; Ontogenesis; Brain; Immunohistochemistry (D'Aniello, B. (95) 194)

Functional gradient
Cell-cell interaction; Synaptogenesis; Terminal differentiation; Maturation gradient; Red field (Andressen, C. (95) 263)

Fusion protein
NMDA receptor; NR1 subunit; Antibody; Quantitative immunoblot; Development (Luo, J. (92) 10)

G

GABA
Dopamine; Differentiation; Growth factor; Tyrosine hydroxylase; Tissue culture (Max, S.R. (91) 140)

Retinal development; GABA-A receptor; Horizontal cell; Cone photoreceptor (Mitchell, C.K. (95) 63)

Hippocampus; Inhibition; Facilitation; Feed-forward; Feed-back; Interneuron (Bronzino, J.D. (96) 277)

GABA-A receptor
Retinal development; GABA; Horizontal cell; Cone photoreceptor (Mitchell, C.K. (95) 63)

$GABA_A$ receptor
Receptor assembly; Receptor regulation; Cerebellar granule neurons; Subunit-specific antibodies (Nadler, L.S. (97) 216)

GAD in situ hybridisation
Pretectum; LGNd; Retrograde transport; Calcium binding protein; Postnatal development (Reimann, S. (91) 143)

Galactolipid
Astrocyte; Oligodendrocyte; Human; Immunocytochemistry; Ganglioside; Monoclonal antibody (Satoh, J.-i. (93) 172)

Galactose-1-phosphate uridyltransferase
Myelination; Brain; Peripheral nerve (Daude, N. (94) 190)

Galanin
Acetylcholinesterase; Calcitonin gene-related peptide; Choline acetyltransferase; Enkephalin; Galanin message-associated peptide; Rat (Holgert, H. (97) 88)

Galanin message-associated peptide
Acetylcholinesterase; Calcitonin gene-related peptide; Choline acetyltransferase; Enkephalin; Galanin; Rat (Holgert, H. (97) 88)

Gamma-aminobutyric acid
Prefrontal cortex; 6-Hydroxydopamine; Noradrenaline; Development; Behavior (Podkletnova, I. (94) 197)

Ganglion cell
Axonal cell adhesion molecule; In situ hybridisation; Development; Retina; Chick; Amacrine cell; Photoreceptor (Morino, P. (91) 252)

Ganglionic eminence
Cell sorting; Flow cytometry; GM1; Striatum (Shindler, K.S. (92) 199)

Ganglioside
Astrocyte; Oligodendrocyte; Human; Immunocytochemistry; Galactolipid; Monoclonal antibody (Satoh, J.-i. (93) 172)

Ganglioside function
Dendrite growth; Neocortical development; Pyramidal cell differentiation; Ganglioside localization (Goodman, L.A. (93) 162)

Ganglioside localization
Dendrite growth; Neocortical development; Pyramidal cell differentiation; Ganglioside function (Goodman, L.A. (93) 162)

GAP-43
Cocaine; S-100; BrdU; Vimentin; Gliogenesis; Prenatal (Clarke, C. (91) 268)

Development; Brain; Song control nucleus; Synaptogenesis; Immunofluorescence; Zebra finch (Sakaguchi, H. (95) 245)

Gap junction
Slice culture; Connexin43; Astrocytes; Neurons (Perez Velazquez, J.L. (97) 293)

GAP-43 mRNA
Cerebellum; Inferior olive; In situ hybridization; Synaptogenesis; Axonal outgrowth; Neuroplasticity; Cerebellar granule cell; Cerebellar nucleus (Console-Bram, L.M. (95) 97)

Gene expression
Central nervous system; Chicken; Growth factor; Molecular cloning; Tyrosine kinase (Holzenberger, M. (97) 76)

cDNA cloning; Brain development; Embryonic brain (Usui, H. (97) 185)

Gene regulation
Peripherin; Transgenic mouse; *lacZ* reporter; Intragenic sequence (Leconte, L. (92) 1)

Genomic imprinting
Chimera; Parthenogenetic cell; Androgenetic cell; Hypothalamus; Telencephalon; Development (Keverne, E.B. (92) 91)

Genotype
Inter-strain variability; Sex difference; Culture; Sex steroid; Dopamine uptake; HPLC; Tyrosine hydroxylase immunocytochemistry (Sibug, R. (93) 136)

GFAP
Neurofilament protein; Actin; Heat shock protein; Human fetal brain (Aquino, D.A. (91) 1)

Glia
Brainstem; Cerebellum; Development; Neuron (Yang, Q. (91) 181)

Iron histochemistry; Evolution; Oligodendrocyte; Myelin; Neuron (Erb, G.L. (93) 120)

Glutamate; Heparan sulfate; Chondroitin sulfate; Hippocampus; Protein kinase C (Chisamore, B. (97) 22)

Glial cell
Laminin; Nidogen; Kainate; Vascular cell; Basement membrane; Mossy fiber sprouting (Niquet, J. (95) 227)

Glial fibrillary acidic protein
Microglia; Cortisone; Neonatal; Brain damage; Ischemia; Hypoxia (McRae, A. (94) 44)

Olfactory system; Glial morphology (Chiu, K. (95) 28)

Glial morphology
Glial fibrillary acidic protein; Olfactory system (Chiu, K. (95) 28)

Gliogenesis
Cocaine; S-100; GAP-43; BrdU; Vimentin; Prenatal (Clarke, C. (91) 268)

Glioma
Astrocytes; Gliosis; Cell cycle (Li, V. (96) 138)

Gliosis
Astrocytes; Glioma; Cell cycle (Li, V. (96) 138)

Glomerulus
Naris closure; Odor; Olfactory deprivation; Olfactory nerve; Synapse; Synaptic vesicle (Johnson, B.A. (92) 24)

Glucocorticoid receptor
Mineralocorticoid receptor; Maternal deprivation; ACTH; Hippocampus; Ontogeny; Rat (Sutanto, W. (92) 156)

Glucocorticoids, effects on serotonin transporter
Dexamethasone, effects on serotonin transporter; Paroxetine, binding to serotonin transporter; Serotonin transporter, development (Slotkin, T.A. (93) 155)

Glucose homeostasis
Facilitated-diffusion glucose transporter; GLUT3; Rat retina; Neuron (Watanabe, T. (94) 60)

GluR6
Development; Kainate receptor; mRNA editing; Rat brain; Tissue culture (Schmitt, J. (91) 153)

GLUT3
Facilitated-diffusion glucose transporter; Rat retina; Neuron; Glucose homeostasis (Watanabe, T. (94) 60)

Glutamate
γ-Aminobutyric acid; Major histocompatibility complex II; Macrophage; Cerebellum (Alliot, F. (95) 140)

Glia; Heparan sulfate; Chondroitin sulfate; Hippocampus; Protein kinase C (Chisamore, B. (97) 22)

Epilepsy; Seizures; Brain damage; Recurrent seizures; Animal model (Liu, Z. (97) 178)

Excitotoxicity; Maturation; Hippocampus; Calcium; Development (Marks, J.D. (97) 194)

Glutamate receptor
Long-term potentiation; Development; Phospholipase; Synaptoneurosome (Chabot, C. (93) 70)

Glutamate receptor channel δ2 subunit
Purkinje cell; Developmental change; Synapse formation; In situ hybridization; Immunohistochemistry (Takayama, C. (92) 147)

Glutathione
Antioxidant; Cortex; Cerebellum; Developmental (Nanda, D. (94) 238)

GM1
Cell sorting; Flow cytometry; Ganglionic eminence; Striatum (Shindler, K.S. (92) 199)

GnRH
Migration; Olfactory; Thalamus; Quail–chick chimera; Development (Gao, C. (91) 237)

GnRH neuron
Migration; Ontogeny; Chimeric embryo; Aves; Terminal nerve; FMRFamide neuron (Yamamoto, N. (95) 234)

Golgi impregnation
Mossy fiber; Pyramidal cell; Hippocampal formation; Timm staining; Dreher mouse (Sekiguchi, M. (92) 31)

Granule cell
Fastigial nucleus; Immunohistochemistry; Purkinje cell maturation; Signal transduction; *src* proto-oncogene (Chen, S. (92) 140)

Cerebellum; Purkinje cell; Development; IGF-I; Transgenic mouse (Ye, P. (95) 44)

Cerebellar pattern formation; *Engrailed-2* gene; Spinocerebellar mossy fiber; Purkinje cell; Foliation; Homeobox gene (Vogel, M.W. (96) 210)

Transgenic mutant; Purkinje cells; PKCγ; NR2C; Pattern formation; Synaptogenesis (Ji, Z. (97) 138)

Growth cone
Sensory neuron; DRG; Calcium imaging; Channel cluster (Amato, A. (92) 101)

Neural cell adhesion molecule; Corticospinal tract; Guidance; Pyramidal tract; L1 ; Tract formation (Joosten, E.A.J. (94) 99)

Axon; Subcellular fractionation; Biochemical markers; Fetal brain; Neurite growth (Lohse, K. (96) 83)

Growth factor
Dopamine; Differentiation; Tyrosine hydroxylase; Tissue culture; GABA (Max, S.R. (91) 140)

Neurogenesis; Mitogen; Neurotrophin 3; Vasoactive intestinal peptide; Epidermal growth factor; Insulin; Sympathetic neuroblasts (Lu, N. (94) 31)

Central nervous system; Chicken; Gene expression; Molecular cloning; Tyrosine kinase (Holzenberger, M. (97) 76)

Guanylyl cyclase
Hybridization, in situ; Development; mRNA differential display (Smigrodzki, R. (97) 226)

Guidance
Neural cell adhesion molecule; Corticospinal tract; Growth cone; Pyramidal tract; L1 ; Tract formation (Joosten, E.A.J. (94) 99)

Gymnotiformes
Somatostatin; BrdU; Double labelling; Proliferation; Neurogenesis; Prepacemaker nucleus; Electric fish; *Apteronotus leptorhynchus* (Stroh, T. (93) 76)

Apoptosis; Programmed cell death; Postnatal neurogenesis; Postembryonic development; Cerebellum; TUNEL method; Teleostei; Fish; *Apteronotus leptorhynchus* (Soutschek, J. (97) 279)

H

Hamster
Kynurenic acid; Kynurenine; Excitatory amino acid system; Movement disorder; Dystonia (Richter, A. (92) 111)

Efferent; Synaptogenesis; Development; Inner ear (Simmons, D.D. (95) 213)

Heat shock protein
GFAP; Neurofilament protein; Actin; Human fetal brain (Aquino, D.A. (91) 1)

Heme oxygenase
Carbon monoxide; Hippocampus; Cerebral cortex; Cerebellum; Development (Cook, M.N. (92) 18)

Heparan sulfate
Glutamate; Glia; Chondroitin sulfate; Hippocampus; Protein kinase C (Chisamore, B. (97) 22)

High potassium
Nerve growth factor; Brain-derived neurotrophic factor; Programmed cell death; Basal forebrain (Abiru, Y. (91) 260)

High-potassium medium
Cell cycle; Programmed cell death; Cyclin D1; RT-PCR (Oka, T. (97) 96)

Hippocampal formation
Mossy fiber; Pyramidal cell; Timm staining; Golgi impregnation; Dreher mouse (Sekiguchi, M. (92) 31)

Lectin; Immunocytochemistry; Interneuron; *N*-Acetylgalactosamine; Ontogeny; Perineuronal net; Subicular complex (Bausch, S.B. (97) 169)

Hippocampal slice
Long-term incubation; Ontogeny; Ischemia; Energy metabolism; Protein synthesis (Berger, R. (91) 281)

Hippocampal slice culture
Mossy fiber; Dentate gyrus; Stratum lucidum; Axon guidance; Development (Nguyen, L.B. (95) 184)

Hippocampus
Sodium current; Kinetics; Rate constant; Maturation; CA1 (Costa, P.F. (91) 29)

Corticotropin releasing hormone; Receptor; Messenger RNA; Amygdala; Development; Rat (Avishai-Eliner, S. (91) 159)

Epilepsy; Infant; Rat (Ribak, C.E. (91) 245)

Heme oxygenase; Carbon monoxide; Cerebral cortex; Cerebellum; Development (Cook, M.N. (92) 18)

Cocaine; Long-term potentiation; Pregnancy; Rabbit; Neurophysiology (Little, J.Z. (92) 117)

Mineralocorticoid receptor; Glucocorticoid receptor; Maternal deprivation; ACTH; Ontogeny; Rat (Sutanto, W. (92) 156)

Development; Epileptogenesis; 4-Aminopyridine; Immature; Rat (Psarropoulou, C. (94) 52)

Down syndrome; Partial trisomy 16; Cyclic AMP (Dierssen, M. (95) 122)

Axon; Culture; Entorhinal cortex; Tract tracing (Woodhams, P.L. (95) 144)

Monosodium glutamate; Hypothalamus; Cerebral cortex; NMDA receptor; (+)-3-[^{125}I]MK-801 binding (Otoya, R.E. (95) 149)

192 IgG-saporin; Acetylcholine; Brain development; Spatial learning/memory; Sympathetic ingrowth; Down syndrome; Rett syndrome (Pappas, B.A. (96) 52)

VGF; PC12 cells; Neuronal polarization; Large dense core vesicles; Secretory granules (Benson, D.L. (96) 219)

Inhibition; Facilitation; Feed-forward; Feedback; GABA; Interneuron (Bronzino, J.D. (96) 277)

Glutamate; Glia; Heparan sulfate; Chondroitin sulfate; Protein kinase C (Chisamore, B. (97) 22)

Acetylcholinesterase; Basal forebrain; Cholinergic; Cortex; Target selection (Baratta, J. (97) 143)

Excitotoxicity; Maturation; Calcium; Development; Glutamate (Marks, J.D. (97) 194)

Histoenzymology
NO-synthase; Development; Tyrosine hydroxylase; Immunocytochemistry (Samama, B. (96) 192)

Homeobox gene
Cerebellar pattern formation; *Engrailed-2* gene; Spinocerebellar mossy fiber; Purkinje cell; Foliation; Granule cell (Vogel, M.W. (96) 210)

Horizontal cell
Retinal development; GABA; GABA-A receptor; Cone photoreceptor (Mitchell, C.K. (95) 63)

HPA-axis
Ontogeny; Dopamine system; Selection line; Corticosterone receptor (Rots, N.Y. (92) 164)

HPLC
Inter-strain variability; Sex difference; Culture; Genotype; Sex steroid; Dopamine uptake; Tyrosine hydroxylase immunocytochemistry (Sibug, R. (93) 136)

[^{3}H]Rauwolscine
Adrenergic α_2-receptors; Alpha-2A; Alpha-2C; [^{3}H]RX821002; Ontogeny of α_2-receptors (Savola, M.K.T. (94) 106)

[^{3}H]RX821002
Adrenergic α_2-receptors; Alpha-2A; Alpha-2C; [^{3}H]Rauwolscine; Ontogeny of α_2-receptors (Savola, M.K.T. (94) 106)

5-HT$_{1A}$
Serotonin; Fetal alcohol syndrome; Ethanol; Buspirone; Reuptake (Kim, J.-A. (92) 190)

[^{3}H]Thymidine
Reptile; Lizard; Adult neurogenesis; Bromodeoxyuridine; Quantitative study (Pérez-Cañellas, M.M. (93) 49)

Nicotinic receptor; Alpha-3 subunit; Alpha-8 subunit; Autoradiography; Immunocytochemistry; Cell generation (Gardino, P.F. (95) 205)

Amphibia; Cell division; Retinal pigment epithelium (Beazley, L.D. (96) 290)

[^{3}H]Thymidine autoradiography
Cerebellar development; Dopamine; Tyrosine hydroxylase immunocytochemistry; Weaver mutant mouse (Bayer, S.A. (96) 130)

Human
Astrocyte; Oligodendrocyte; Immunocytochemistry; Ganglioside; Galactolipid; Monoclonal antibody (Satoh, J.-i. (93) 172)

Human fetal brain
GFAP; Neurofilament protein; Actin; Heat shock protein (Aquino, D.A. (91) 1)

Human fetal muscle
Dystrophin; Dystrophin-associated glycoprotein; Utrophin; Membrane cytoskeletal protein; β-Spectrin; Vinculin; Talin (Mora, M. (91) 70)

Human retina
Immunohistochemistry; Calcium binding protein; Calbindin; Parvalbumin; Development (Nag, T.C. (93) 23)

Hybridization, in situ
Guanylyl cyclase; Development; mRNA differential display (Smigrodzki, R. (97) 226)

3-Hydroxybenzylhydrazine dihydrochloride
L-β-3,4-Dihydroxyphenylalanine; NSD 1015; Locomotion; Activity; Ontogeny (Arnaiz, C.O. (94) 234)

6-Hydroxydopamine
Prefrontal cortex; Noradrenaline; Gamma-aminobutyric acid; Development; Behavior (Podkletnova, I. (94) 197)

Hyperpnea
Carbon dioxide; Hyperthermia; Rat; Seizure; Fever (Morimoto, T. (92) 77)

Hyperthermia
Carbon dioxide; Rat; Seizure; Hyperpnea; Fever (Morimoto, T. (92) 77)

Hypoglossal nucleus
Biogenic amine; Catecholamine; Norepinephrine; Tyrosine hydroxylase; Rat; Tongue; Ontogeny (Aldes, L.D. (91) 83)

Hypomyelinating mutant
Myelin; Caprine β-mannosidosis; mRNA; Northern blot; Myelin-associated glycoprotein; Myelin basic protein; Proteolipid protein (Sasaki, M. (91) 131)

Hypophysis
C-ets1; Proto-oncogene; Angiogenesis; Development; Hypothalamic magnocellular nuclei; Rat; In situ hybridization (Laurent-Huck, F.M. (97) 107)

Hypothalamic magnocellular nuclei
C-ets1; Proto-oncogene; Angiogenesis; Development; Hypophysis; Rat; In situ hybridization (Laurent-Huck, F.M. (97) 107)

Hypothalamus
Swine; Development; Immunohistochemistry; Arcuate nucleus (Pearson, P.L. (91) 41)

Perinatal development; Sexual differentiation; Estrogen receptor; Rat; Immunohistochemistry (Pasterkamp, R.J. (91) 300)

Genomic imprinting; Chimera; Parthenogenetic cell; Androgenetic cell; Telencephalon; Development (Keverne, E.B. (92) 91)

Swine; Development; Immunohistochemistry; Median eminence (Pearson, P.L. (92) 125)

Norepinephrine; Restraint; Utilization; Release (Choi, S.J. (94) 144)

Monosodium glutamate; Hippocampus; Cerebral cortex; NMDA receptor; (+)-3-[^{125}I]MK-801 binding (Otoya, R.E. (95) 149)

Swine; Development; Immunohistochemistry; Median eminence; Organum vasculosum of the lamina terminalis (Pearson, P.L. (95) 157)

Amygdala; Calbindin-D$_{28K}$; Development; Rat; Sexual differentiation; Western analysis (Lephart, E.D. (96) 281)

Hypoxia
Development; Rat; Patch clamp; Respiration; Ventrolateral medulla (Nolan, P.C. (91) 111)

Microglia; Glial fibrillary acidic protein; Cortisone; Neonatal; Brain damage; Ischemia (McRae, A. (94) 44)

Adrenal medulla; Fetus; Catecholamine; Calcium; Sheep (Adams, M.B. (94) 182)

Neuroprotection; Ischemia; Sodium channel; Stroke; Rat pup; Calpain; Spectrin breakdown (Vartanian, M.G. (95) 169)

Hypoxia-ischemia
Age; Development; Stroke; Brain damage (Yager, J.Y. (93) 143)

Hypoxia-ischemia in utero
Metabotropic glutamate receptor; Phosphoinositide hydrolysis; Quisqualate; Cerebellar granule cell (Rhodes, P.G. (93) 129)

I

Ia afferent
Spinal cord; Dorsal root ganglion; Lateral motor column; Synaptic connectivity; Development (Eide, A.L. (97) 126)

Ibotenic acid
Kynurenic acid; Kynurenine; Neurodegeneration; Neuroprotection; Quinolinic acid (Ceresoli, G. (92) 61)

IGF
IGFBP-5; Development; Nervous system; Schwann cell; Purkinje cell; Immunohistochemistry (Cheng, H.-L. (92) 211)

IGFBP-5
IGF; Development; Nervous system; Schwann cell; Purkinje cell; Immunohistochemistry (Cheng, H.-L. (92) 211)

IGF-I
Cerebellum; Granule cell; Purkinje cell; Development; Transgenic mouse (Ye, P. (95) 44)

192 IgG-saporin
Acetylcholine; Brain development; Spatial learning/memory; Hippocampus; Sympathetic ingrowth; Down syndrome; Rett syndrome (Pappas, B.A. (96) 52)

(+)-3-[^{125}I]MK-801 binding
Monosodium glutamate; Hippocampus; Hypothalamus; Cerebral cortex; NMDA receptor (Otoya, R.E. (95) 149)

Immature
Development; Hippocampus; Epileptogenesis; 4-Aminopyridine; Rat (Psarropoulou, C. (94) 52)

Immediate-early gene
c-*fos*; Metamphetamine; Development; Striatum; Dopamine (Kasof, G.M. (93) 191)

Immunocytochemistry
LHRH; Optic nerve; Optic chiasm; Optic tract; Rat (Santacana, M. (91) 292)

Astrocyte; Oligodendrocyte; Human; Ganglioside; Galactolipid; Monoclonal antibody (Satoh, J.-i. (93) 172)

Tyrosine hydroxylase; Morphometry; Survival; Sexual differentiation (Lieb, K. (94) 37)

Constitutive nitric oxide synthase protein; Brain development; Sheep; Cerebrovascular development (Northington, F.J. (95) 1)

Nicotinic receptor; Alpha-3 subunit; Alpha-8 subunit; Autoradiography; Cell generation; [^{3}H]Thymidine (Gardino, P.F. (95) 205)

NO-synthase; Development; Histoenzymology; Tyrosine hydroxylase (Samama, B. (96) 192)

Floor plate; Subcommissural organ; Flexural organ; Serotonergic neurons (Rodríguez, E.M. (97) 153)

Lectin; Hippocampal formation; Interneuron; *N*-Acetylgalactosamine; Ontogeny; Perineuronal net; Subicular complex (Bausch, S.B. (97) 169)

Immunofluorescence
Neurofilament subunit; Patch-clamp; Embryonic neurons; Coculture; Maturation (Steinschneider, R. (95) 15)

Development; Brain; Song control nucleus; Synaptogenesis; GAP-43; Zebra finch (Sakaguchi, H. (95) 245)

Cell migration; Merosin; Myelination; O-2A progenitor (Payne, H.R. (97) 9)

Immunohistochemistry
Swine; Development; Hypothalamus; Arcuate nucleus (Pearson, P.L. (91) 41)

Perinatal development; Sexual differentiation; Estrogen receptor; Hypothalamus; Rat (Pasterkamp, R.J. (91) 300)

Swine; Development; Hypothalamus; Median eminence (Pearson, P.L. (92) 125)

Fastigial nucleus; Granule cell; Purkinje cell maturation; Signal transduction; *src* proto-oncogene (Chen, S. (92) 140)

Glutamate receptor channel δ2 subunit; Purkinje cell; Developmental change; Synapse formation; In situ hybridization (Takayama, C. (92) 147)

IGF; IGFBP-5; Development; Nervous system; Schwann cell; Purkinje cell (Cheng, H.-L. (92) 211)

Myelination; Quantitative assessment; Nerve pathway; Rat (Hamano, K. (93) 18)

Calcium binding protein; Calbindin; Parvalbumin; Development; Human retina (Nag, T.C. (93) 23)

Mouse; Submandibular gland; Neuropeptide; Ontogeny (Kusakabe, T. (95) 125)

Swine; Development; Hypothalamus; Median eminence; Organum vasculosum of the lamina terminalis (Pearson, P.L. (95) 157)

FMRFamide; Cardioexcitatory tetrapeptide; Ontogenesis; Brain; Frog (D'Aniello, B. (95) 194)

c-*Fos*; Dopamine; D1 receptor; Muscarinic receptor; 6-OHDA; Development; Striatum; Scopolamine; SKF 38393 (Sandstrom, M.I. (96) 148)

Development; Locus coeruleus; Noradrenergic neuron; Adrenergic terminal; Anti-tyrosine hydroxylase serum; Anti-phenylethanolamine *N*-methyltransferase serum; Rat (Saito, N. (96) 241)

Taste organ; Neuropeptide; Ontogeny; Bullfrog (Kusakabe, T. (96) 285)

Mast cells; Cerebrovascular; Differentiation; Phenotype; Protease; Development; Northern blot analysis; In situ hybridization (Dimitriadou, V. (97) 29)

Immunoperoxidase
CD44; Cell adhesion; Müller cells; Photoreceptor; Retina (Chaitin, M.H. (94) 92)

Immunoprecipitation
Muscarinic receptor; Antibody; Brain; Development; Central nervous system (Tice, M.A.B. (92) 70)

Infant
Epilepsy; Rat; Hippocampus (Ribak, C.E. (91) 245)

Inferior olive
GAP-43 mRNA; Cerebellum; In situ hybridization; Synaptogenesis; Axonal outgrowth; Neuroplasticity; Cerebellar granule cell; Cerebellar nucleus (Console-Bram, L.M. (95) 97)

Inhibition
Hippocampus; Facilitation; Feed-forward; Feed-back; GABA; Interneuron (Bronzino, J.D. (96) 277)

Inner ear
Efferent; Synaptogenesis; Development; Hamster (Simmons, D.D. (95) 213)

In situ hybridization
Axonal cell adhesion molecule; Development; Retina; Chick; Ganglion cell; Amacrine cell; Photoreceptor (Morino, P. (91) 252)

Calmodulin mRNA; Postnatal development; Visual projection (Berry, F.B. (91) 171)

Glutamate receptor channel δ2 subunit; Purkinje cell; Developmental change; Synapse formation; Immunohistochemistry (Takayama, C. (92) 147)

Neonatal hypoxia-ischemia; Ontogeny; Dopamine receptor; D_1 receptor; D_2 receptor; Receptor autoradiography; Striatum; Plasticity (Filloux, F.M. (94) 81)

Dopamine; Striatum; D1 receptor; D2 receptor; Development; Receptor autoradiography (Jung, A.B. (94) 109)

*Zif*268; D1 receptor; D2 receptor; Striatum; Development; Cocaine (Jung, A.B. (94) 121)

trkB^{TK+}; trkC; Cocaine; Striatum; Development; Dopamine D1 receptor; Dopamine D2 receptor (Jung, A.B. (94) 133)

Brain mapping; Caffeine; Ontogeny; P_1-purinergic receptor (Weaver, D.R. (94) 205)

GAP-43 mRNA; Cerebellum; Inferior olive; Synaptogenesis; Axonal outgrowth; Neuroplasticity; Cerebellar granule cell; Cerebellar nucleus (Console-Bram, L.M. (95) 97)

Mast cells; Cerebrovascular; Differentiation; Phenotype; Protease; Development; Immunohistochemistry; Northern blot analysis (Dimitriadou, V. (97) 29)

C-ets1; Proto-oncogene; Angiogenesis; Development; Hypothalamic magnocellular nuclei; Hypophysis; Rat (Laurent-Huck, F.M. (97) 107)

Somatostatin sst_2 receptors; Autoradiography; Auditory system (Thoss, V.S. (97) 269)

Insulin
Neurogenesis; Growth factor; Mitogen; Neurotrophin 3; Vasoactive intestinal peptide; Epidermal growth factor; Sympathetic neuroblasts (Lu, N. (94) 31)

Obesity; Paraventricular nucleus; Dopamine-β-hydroxylase; Development; Differentiation (Jones, A.P. (97) 16)

Intermediate zone
Apoptosis; Corpus callosum; Macrophage; Pyknosis; Cortical plate; Subplate; Ventricular zone (Johnson, J.K. (94) 159)

Interneuron
Hippocampus; Inhibition; Facilitation; Feed-forward; Feed-back; GABA (Bronzino, J.D. (96) 277)

Lectin; Hippocampal formation; Immunocytochemistry; *N*-Acetylgalactosamine; Ontogeny; Perineuronal net; Subicular complex (Bausch, S.B. (97) 169)

Inter-strain variability
Sex difference; Culture; Genotype; Sex steroid; Dopamine uptake; HPLC; Tyrosine hydroxylase immunocytochemistry (Sibug, R. (93) 136)

Intracranial pressure
Brain injury; Fluid percussion; Concussion; Development; Mean arterial blood pressure (Prins, M.L. (95) 272)

Intragenic sequence
Peripherin; Transgenic mouse; *lacZ* reporter; Gene regulation (Leconte, L. (92) 1)

Intrauterine association
Estrogen receptor; Preoptic area; Sexual differentiation; Development; Tamoxifen; Diethylstilbestrol (DonCarlos, L.L. (94) 224)

Intra-uterus transplantation
Olfactory neurons; Central nervous system; Differentiation; Cell reaggregation (Magrassi, L. (96) 11)

Intrinsic neuron
Striatum; Substance P receptor; Ontogeny; Patch-matrix compartment; Projection neuron; Dopamine; DARPP-32 (Tokuno, H. (95) 107)

In vitro
Striate cortex; Ontogeny; Differentiation; Blockade of spontaneous activity; Protein blot (Kierstein, G. (92) 39)

Cochleovestibular ganglion; Otocyst; Antinsense oligonucleotide; Neurotrophin; Neuronal survival; Neuritogenesis; Neurite guidance (Staecker, H. (92) 49)

Iron histochemistry
Evolution; Oligodendrocyte; Glia; Myelin; Neuron (Erb, G.L. (93) 120)

Ischemia
Hippocampal slice; Long-term incubation; Ontogeny; Energy metabolism; Protein synthesis (Berger, R. (91) 281)

Microglia; Glial fibrillary acidic protein; Cortisone; Neonatal; Brain damage; Hypoxia (McRae, A. (94) 44)

Neuroprotection; Hypoxia; Sodium channel; Stroke; Rat pup; Calpain; Spectrin breakdown (Vartanian, M.G. (95) 169)

Islands of Calleja
Brain development; Ventral striatum; Thalamus; Parietal cortex; Schizophrenia (Demotes-Mainard, J. (94) 166)

Isoproterenol
Prenatal; Nicotine; Memory; Working memory; T-maze; Radial-arm maze; Phenoxybenzamine; Phenylpropanolamine (Levin, E.D. (97) 207)

K

Kainate
Laminin; Nidogen; Vascular cell; Basement membrane; Glial cell; Mossy fiber sprouting (Niquet, J. (95) 227)

Kainate receptor
Development; GluR6; mRNA editing; Rat brain; Tissue culture (Schmitt, J. (91) 153)

Kainic acid
ACTH; Corticosterone; Development; NMDA; Ontogeny; Stress hyporesponsive period (Kent, S. (94) 1)

K^+ current
Ciliary ganglion; Neuronal differentiation; Trophic factor; Nicotinic antagonist; Cell death (Subramony, P. (91) 149)

Kinetics
Sodium current; Rate constant; Maturation; Hippocampus; CA1 (Costa, P.F. (91) 29)

Kynurenic acid
Ibotenic acid; Kynurenine; Neurodegeneration; Neuroprotection; Quinolinic acid (Ceresoli, G. (92) 61)

Kynurenine; Excitatory amino acid system; Movement disorder; Dystonia; Hamster (Richter, A. (92) 111)

Kynurenine
Ibotenic acid; Kynurenic acid; Neurodegeneration; Neuroprotection; Quinolinic acid (Ceresoli, G. (92) 61)

Kynurenic acid; Excitatory amino acid system; Movement disorder; Dystonia; Hamster (Richter, A. (92) 111)

L

L1
Neural cell adhesion molecule; Corticospinal tract; Growth cone; Guidance; Pyramidal tract; Tract formation (Joosten, E.A.J. (94) 99)

Laminin
Nidogen; Kainate; Vascular cell; Basement membrane; Glial cell; Mossy fiber sprouting (Niquet, J. (95) 227)

Large dense core vesicles
VGF; Hippocampus; PC12 cells; Neuronal polarization; Secretory granules (Benson, D.L. (96) 219)

Lashley maze
Autoimmunity; Congenic strain; Cortical ectopia; Discrimination learning; Embryo transfer; Morris maze; Spatial learning; Y chromosome (Denenberg, V.H. (93) 100)

Lateral geniculate nucleus
Visual system; Activity dependence; Development; Plasticity; Ponto-geniculo-occipital wave; Monocular occlusion (Oksenberg, A. (97) 51)

Laterality of projection
Auditory pathway; Superior olivary complex; Fluoro-gold; Development; Thymidine analogue; Neurogenesis (Kudo, M. (95) 72)

Lateral motor column
Spinal cord; Dorsal root ganglion; Ia afferent; Synaptic connectivity; Development (Eide, A.L. (97) 126)

Lectin
Hippocampal formation; Immunocytochemistry; Interneuron; *N*-Acetylgalactosamine; Ontogeny; Perineuronal net; Subicular complex (Bausch, S.B. (97) 169)

LGNd
Pretectum; Retrograde transport; GAD in situ hybridisation; Calcium binding protein; Postnatal development (Reimann, S. (91) 143)

LHRH
Optic nerve; Optic chiasm; Optic tract; Rat; Immunocytochemistry (Santacana, M. (91) 292)

Lizard
Reptile; Adult neurogenesis; [^{3}H]Thymidine; Bromodeoxyuridine; Quantitative study (Pérez-Cañellas, M.M. (93) 49)

Local circuit neuron
Calcium-binding protein; Chandelier neuron; Basket neuron; Prefrontal cortex (Condé, F. (96) 261)

Locomotion
L-β-3,4-Dihydroxyphenylalanine; 3-Hydroxybenzylhydrazine dihydrochloride; NSD 1015; Activity; Ontogeny (Arnaiz, C.O. (94) 234)

Development; Central pattern generator; Spinal cord; Rat; *N*-Methyl-D-aspartate (Ozaki, S. (97) 118)

Locus coeruleus
Development; Immunohistochemistry; Noradrenergic neuron; Adrenergic terminal; Anti-tyrosine hydroxylase serum; Anti-phenylethanolamine *N*-methyltransferase serum; Rat (Saito, N. (96) 241)

Long-term depression
Dentate gyrus; Synaptic plasticity; Developing brain (Trommer, B.L. (96) 97)

Long-term incubation
Hippocampal slice; Ontogeny; Ischemia; Energy metabolism; Protein synthesis (Berger, R. (91) 281)

Long-term potentiation
Cocaine; Hippocampus; Pregnancy; Rabbit; Neurophysiology (Little, J.Z. (92) 117)

Development; Phospholipase; Synaptoneurosome; Glutamate receptor (Chabot, C. (93) 70)

Lurcher
Cell death; *Staggerer*; Chimera; Cerebellum; Control of cell number (Herrup, K. (96) 28)

Luteinizing hormone releasing hormone
Olfactory system; Reproduction; Cell migration; Vomeronasal organ; Cribriform plate (Tobet, S.A. (97) 287)

M

Macrophage
Apoptosis; Corpus callosum; Pyknosis; Cortical plate; Subplate; Intermediate zone; Ventricular zone (Johnson, J.K. (94) 159)

Glutamate; γ-Aminobutyric acid; Major histocompatibility complex II; Cerebellum (Alliot, F. (95) 140)

Major histocompatibility complex II
Glutamate; γ-Aminobutyric acid; Macrophage; Cerebellum (Alliot, F. (95) 140)

Mammal
Maturation; Respiratory network; Whole cell recording (Di Pasquale, E. (91) 121)

Marsupial
Cerebellum; Development; Plasticity; Regeneration; Spinal cord (Terman, J.R. (93) 33)

Mast cells
Cerebrovascular; Differentiation; Phenotype; Protease; Development; Immunohistochemistry; Northern blot analysis; In situ hybridization (Dimitriadou, V. (97) 29)

Maternal deprivation
Mineralocorticoid receptor; Glucocorticoid receptor; ACTH; Hippocampus; Ontogeny; Rat (Sutanto, W. (92) 156)

Matrix
Striosome; Patch; Basal ganglia development; Rodent; Protein tyrosine phosphatase (Raghunathan, A. (91) 190)

Maturation
Sodium current; Kinetics; Rate constant; Hippocampus; CA1 (Costa, P.F. (91) 29)

Respiratory network; Mammal; Whole cell recording (Di Pasquale, E. (91) 121)

Immunofluorescence; Neurofilament subunit; Patch-clamp; Embryonic neurons; Coculture (Steinschneider, R. (95) 15)

Excitotoxicity; Hippocampus; Calcium; Development; Glutamate (Marks, J.D. (97) 194)

Maturation gradient
Cell-cell interaction; Synaptogenesis; Terminal differentiation; Functional gradient; Red field (Andressen, C. (95) 263)

Mean arterial blood pressure
Brain injury; Fluid percussion; Concussion; Development; Intracranial pressure (Prins, M.L. (95) 272)

Median eminence
Swine; Development; Hypothalamus; Immunohistochemistry (Pearson, P.L. (92) 125)

Swine; Development; Hypothalamus; Immunohistochemistry; Organum vasculosum of the lamina terminalis (Pearson, P.L. (95) 157)

α-Melanocyte stimulating hormone
Receptor ontogeny (melanotropic peptides); Cortex; Thalamus; Striatum; Cranial nerve nuclei ganglia; Sympathetic ganglia (Lichtensteiger, W. (91) 93)

Membrane cytoskeletal protein
Human fetal muscle; Dystrophin; Dystrophin-associated glycoprotein; Utrophin; β-Spectrin; Vinculin; Talin (Mora, M. (91) 70)

Memory
Prenatal; Nicotine; Working memory; T-maze; Radial-arm maze; Phenoxybenzamine; Phenylpropanolamine; Isoproterenol (Levin, E.D. (97) 207)

Merosin
Cell migration; Myelination; Immunofluorescence; O-2A progenitor (Payne, H.R. (97) 9)

Messenger RNA
Corticotropin releasing hormone; Receptor; Amygdala; Hippocampus; Development; Rat (Avishai-Eliner, S. (91) 159)

Metabotropic glutamate receptor
Hypoxia-ischemia in utero; Phosphoinositide hydrolysis; Quisqualate; Cerebellar granule cell (Rhodes, P.G. (93) 129)

Metamphetamine
c-*fos*; Immediate-early gene; Development; Striatum; Dopamine (Kasof, G.M. (93) 191)

Methadone
Acetylcholine; Dopamine; Perinatal; Rat; Serotonin (Robinson, S.E. (95) 118)

5-Methylcytidine
Monoclonal antibody; Apoptosis; Cerebellar granule cell; Potassium (Bertino, L. (95) 38)

***N*-Methyl-D-aspartate**
Development; Diffusion; Diffusion-weighted NMR imaging; Excitotoxicity; Extracellular space; Neonatal rat (Van Lookeren Campagne, M. (93) 109)

Development; Central pattern generator; Locomotion; Spinal cord; Rat (Ozaki, S. (97) 118)

Microglia
Glial fibrillary acidic protein; Cortisone; Neonatal; Brain damage; Ischemia; Hypoxia (McRae, A. (94) 44)

Apoptosis; Programmed cell death; DNA fragmentation; TUNEL; Retina; Müller cells (Egensperger, R. (97) 1)

Microtubule-associated protein
Thyroid hormone; Trophic factor; Dorsal root ganglion cell culture; Cytoplasmic dynein; Tubulin (Barakat-Walter, I. (96) 109)

Migration
GnRH; Olfactory; Thalamus; Quail–chick chimera; Development (Gao, C. (91) 237)

Ensheathing cell; Olfactory epithelium; Axogenesis; Axon growth; Development (Tennent, R. (95) 135)

GnRH neuron; Ontogeny; Chimeric embryo; Aves; Terminal nerve; FMRFamide neuron (Yamamoto, N. (95) 234)

Mineralocorticoid receptor
Glucocorticoid receptor; Maternal deprivation; ACTH; Hippocampus; Ontogeny; Rat (Sutanto, W. (92) 156)

Mitogen
Neurogenesis; Growth factor; Neurotrophin 3; Vasoactive intestinal peptide; Epidermal growth factor; Insulin; Sympathetic neuroblasts (Lu, N. (94) 31)

Mitosis
Albino; Development (Ilia, M. (95) 176)

Molecular cloning
Central nervous system; Chicken; Gene expression; Growth factor; Tyrosine kinase (Holzenberger, M. (97) 76)

Monoclonal antibody
Astrocyte; Oligodendrocyte; Human; Immunocytochemistry; Ganglioside; Galactolipid (Satoh, J.-i. (93) 172)

5-Methylcytidine; Apoptosis; Cerebellar granule cell; Potassium (Bertino, L. (95) 38)

Monocular occlusion
Visual system; Activity dependence; Development; Plasticity; Ponto-geniculo-occipital wave; Lateral geniculate nucleus (Oksenberg, A. (97) 51)

Monosodium glutamate
Hippocampus; Hypothalamus; Cerebral cortex; NMDA receptor; (+)-3-[^{125}I]MK-801 binding (Otoya, R.E. (95) 149)

Morphine
Neuritogenesis; Nerve growth factor; Regeneration; Opioid receptors (Tenconi, B. (94) 175)

Morphogenesis
Cerebellum; Choroid plexus; Neurite outgrowth; Retinoic acid; Retinaldehyde dehydrogenase; Paracrine regulation; Cerebrospinal fluid (Yamamoto, M. (93) 182)

Morphometry
Tyrosine hydroxylase; Immunocytochemistry; Survival; Sexual differentiation (Lieb, K. (94) 37)

Morris maze
Autoimmunity; Congenic strain; Cortical ectopia; Discrimination learning; Embryo transfer; Lashley maze; Spatial learning; Y chromosome (Denenberg, V.H. (93) 100)

Mossy fiber
Pyramidal cell; Hippocampal formation; Timm staining; Golgi impregnation; Dreher mouse (Sekiguchi, M. (92) 31)

Hippocampal slice culture; Dentate gyrus; Stratum lucidum; Axon guidance; Development (Nguyen, L.B. (95) 184)

Mossy fiber sprouting
Laminin; Nidogen; Kainate; Vascular cell; Basement membrane; Glial cell (Niquet, J. (95) 227)

Motoneuron
Nerve-muscle interaction; Activity; Paralysis; Motor unit; Development (Greensmith, L. (94) 152)

Patch mutation; PDGFα receptor; Cell death; Mouse embryo (Li, L. (96) 204)

Motor unit
Motoneuron; Nerve-muscle interaction; Activity; Paralysis; Development (Greensmith, L. (94) 152)

Mouse
Cochlear pathology; Cochlear nucleus; Auditory neuron (Willott, J.F. (91) 218)

COUP-TF; Retinoic acid; Nuclear hormone receptors (Brubaker, K. (93) 198)

Submandibular gland; Neuropeptide; Ontogeny; Immunohistochemistry (Kusakabe, T. (95) 125)

Mouse embryo
Patch mutation; PDGFα receptor; Motoneuron; Cell death (Li, L. (96) 204)

Movement disorder
Kynurenic acid; Kynurenine; Excitatory amino acid system; Dystonia; Hamster (Richter, A. (92) 111)

MRI
Adolescent; Child; Corpus callosum; Development; Myelination; Sex (Giedd, J.N. (91) 274)

Müller cells
CD44; Cell adhesion; Immunoperoxidase; Photoreceptor; Retina (Chaitin, M.H. (94) 92)

Apoptosis; Programmed cell death; DNA fragmentation; TUNEL; Retina; Microglia (Egensperger, R. (97) 1)

Muscarinic receptor
Antibody; Immunoprecipitation; Brain; Development; Central nervous system (Tice, M.A.B. (92) 70)

c-*Fos*; Dopamine; D1 receptor; 6-OHDA; Development; Striatum; Immunohistochemistry; Scopolamine; SKF 38393 (Sandstrom, M.I. (96) 148)

Myelin
Hypomyelinating mutant; Caprine β-mannosidosis; mRNA; Northern blot; Myelin-associ-

ated glycoprotein; Myelin basic protein; Proteolipid protein (Sasaki, M. (91) 131)

Iron histochemistry; Evolution; Oligodendrocyte; Glia; Neuron (Erb, G.L. (93) 120)

Myelin-associated glycoprotein
Myelin; Hypomyelinating mutant; Caprine β-mannosidosis; mRNA; Northern blot; Myelin basic protein; Proteolipid protein (Sasaki, M. (91) 131)

Myelination
Adolescent; Child; Corpus callosum; Development; MRI; Sex (Giedd, J.N. (91) 274)

Immunohistochemistry; Quantitative assessment; Nerve pathway; Rat (Hamano, K. (93) 18)

Galactose-1-phosphate uridyltransferase; Brain; Peripheral nerve (Daude, N. (94) 190)

Peripheral nerve; Paranodal apparatus; Axoglial junctions; Bracelets of Nageotte (Yamamoto, K. (96) 36)

Cell migration; Merosin; Immunofluorescence; O-2A progenitor (Payne, H.R. (97) 9)

Myelin basic protein
Myelin; Hypomyelinating mutant; Caprine β-mannosidosis; mRNA; Northern blot; Myelin-associated glycoprotein; Proteolipid protein (Sasaki, M. (91) 131)

N

Naris closure
Glomerulus; Odor; Olfactory deprivation; Olfactory nerve; Synapse; Synaptic vesicle (Johnson, B.A. (92) 24)

Neocortical development
Dendrite growth; Pyramidal cell differentiation; Ganglioside localization; Ganglioside function (Goodman, L.A. (93) 162)

Neonatal
Microglia; Glial fibrillary acidic protein; Cortisone; Brain damage; Ischemia; Hypoxia (McRae, A. (94) 44)

Neonatal development
Cerebrovascular circulation; Capillary; Rarefaction; Shear stress (Fehér, G. (91) 209)

Neonatal hypoxia-ischemia
Ontogeny; Dopamine receptor; D_1 receptor; D_2 receptor; In situ hybridization; Receptor autoradiography; Striatum; Plasticity (Filloux, F.M. (94) 81)

Neonatal rat
Development; Diffusion; Diffusion-weighted NMR imaging; Excitotoxicity; Extracellular space; *N*-Methyl-D-aspartate (Van Lookeren Campagne, M. (93) 109)

Nerve growth factor
Brain-derived neurotrophic factor; Programmed cell death; High potassium; Basal forebrain (Abiru, Y. (91) 260)

Neuritogenesis; Morphine; Regeneration; Opioid receptors (Tenconi, B. (94) 175)

Brain-derived neurotrophic factor; Enzyme immunoassay; Development; Rat (Zhou, J. (97) 297)

Nerve-muscle interaction
Motoneuron; Activity; Paralysis; Motor unit; Development (Greensmith, L. (94) 152)

Nerve pathway
Myelination; Immunohistochemistry; Quantitative assessment; Rat (Hamano, K. (93) 18)

Nervous system
IGF; IGFBP-5; Development; Schwann cell; Purkinje cell; Immunohistochemistry (Cheng, H.-L. (92) 211)

Nervus terminalis
Development; Colocalization; Olfactory placode; Catecholamine (Verney, C. (97) 251)

Neural cell adhesion molecule
Corticospinal tract; Growth cone; Guidance; Pyramidal tract; L1 ; Tract formation (Joosten, E.A.J. (94) 99)

Neural crest
Neuroblastoma; Stem cell; RT4; Rat; cAMP; Differentiation; Peripheral nervous system (Donahue, L.M. (94) 67)

Retinoic acid; Adrenergic cell; Thyroid hormone; Quail (Rockwood, J.M. (96) 184)

Neural tube defect
Neurulation (Blackshear, P.J. (96) 62)

Neurite growth
Growth cone; Axon; Subcellular fractionation; Biochemical markers; Fetal brain (Lohse, K. (96) 83)

Neurite guidance
Cochleovestibular ganglion; Otocyst; In vitro; Antinsense oligonucleotide; Neurotrophin; Neuronal survival; Neuritogenesis (Staecker, H. (92) 49)

Neurite outgrowth
Cerebellum; Morphogenesis; Choroid plexus; Retinoic acid; Retinaldehyde dehydrogenase; Paracrine regulation; Cerebrospinal fluid (Yamamoto, M. (93) 182)

Neuritogenesis
Cochleovestibular ganglion; Otocyst; In vitro; Antinsense oligonucleotide; Neurotrophin; Neuronal survival; Neurite guidance (Staecker, H. (92) 49)

Morphine; Nerve growth factor; Regeneration; Opioid receptors (Tenconi, B. (94) 175)

Neuroblastoma
Neural crest; Stem cell; RT4; Rat; cAMP; Differentiation; Peripheral nervous system (Donahue, L.M. (94) 67)

Neuroblasts
Neurogenesis; Cerebellum; Transforming growth factor-β2; Neurotrophic factor; Neuronal proliferation; DNA synthesis; Cell culture (Kane, C.J.M. (96) 46)

Neurodegeneration
Ibotenic acid; Kynurenic acid; Kynurenine; Neuroprotection; Quinolinic acid (Ceresoli, G. (92) 61)

Neurofilament protein
GFAP; Actin; Heat shock protein; Human fetal brain (Aquino, D.A. (91) 1)

Neurofilament subunit
Immunofluorescence; Patch-clamp; Embryonic neurons; Coculture; Maturation (Steinschneider, R. (95) 15)

Neurogenesis
Olfactory system; Programmed cell death; Cell proliferation; Cell migration; Subventricular zone; Subependymal zone (Brunjes, P.C. (92) 219)

Somatostatin; BrdU; Double labelling; Proliferation; Prepacemaker nucleus; Electric fish; Gymnotiformes; *Apteronotus leptorhynchus* (Stroh, T. (93) 76)

Growth factor; Mitogen; Neurotrophin 3; Vasoactive intestinal peptide; Epidermal growth factor; Insulin; Sympathetic neuroblasts (Lu, N. (94) 31)

Auditory pathway; Superior olivary complex; Fluoro-gold; Development; Laterality of projection; Thymidine analogue (Kudo, M. (95) 72)

Cerebellum; Transforming growth factor-β2; Neurotrophic factor; Neuroblasts; Neuronal proliferation; DNA synthesis; Cell culture (Kane, C.J.M. (96) 46)

Embryonic development; Two-dimensional polyacrylamide gel electrophoresis; Spinal cord; Central nervous system (CNS)-specific protein; TOAD-64 (Geschwind, D.H. (97) 62)

Neuron
Brainstem; Cerebellum; Development; Glia (Yang, Q. (91) 181)

1,25-Dihydroxyvitamin D_3 receptor; Rat; Fetal; Dorsal root ganglia; Calbindin-D_{28k} (Johnson, J.A. (92) 120)

Iron histochemistry; Evolution; Oligodendrocyte; Glia; Myelin (Erb, G.L. (93) 120)

Facilitated-diffusion glucose transporter; GLUT3; Rat retina; Glucose homeostasis (Watanabe, T. (94) 60)

Neuronal aggregation
Reissner's fiber; Subcommissural organ; Primary culture; Development (Monnerie, H. (96) 120)

Neuronal death
Neurotrophin; Tyrosine phosphorylation; Brain-derived neurotrophic factor; Phospholipase C_γ (Nonomura, T. (97) 42)

Neuronal differentiation
Ciliary ganglion; K^+ current; Trophic factor; Nicotinic antagonist; Cell death (Subramony, P. (91) 149)

Embryonic stem cell; Retinoic acid; Phosphotyrosine phosphatase alpha; Patch clamp; Voltage

clamp; Active current; Neurotransmitter (Van Inzen, W.G. (91) 304)

Neuronal maturation
Olfactory epithelium; Olfactory receptor maturation; Olfactory neural development; Thyroid hormones; Thyroid and neural development; Developmental plasticity; Recovery from neural retardation; Compensatory neural growth (Paternostro, M.A. (96) 173)

Neuronal polarization
VGF; Hippocampus; PC12 cells; Large dense core vesicles; Secretory granules (Benson, D.L. (96) 219)

Neuronal proliferation
Neurogenesis; Cerebellum; Transforming growth factor-β2; Neurotrophic factor; Neuroblasts; DNA synthesis; Cell culture (Kane, C.J.M. (96) 46)

Neuronal survival
Cochleovestibular ganglion; Otocyst; In vitro; Antinsense oligonucleotide; Neurotrophin; Neuritogenesis; Neurite guidance (Staecker, H. (92) 49)

Neurons
Slice culture; Gap junction; Connexin43; Astrocytes (Perez Velazquez, J.L. (97) 293)

Neuron-specific protein
Drebrin; Adhesion plaque; Actin; Vinculin; Cytochalasin D; Cell-substratum adhesion; Development (Ikeda, K. (91) 227)

Neuropeptide
Mouse; Submandibular gland; Ontogeny; Immunohistochemistry (Kusakabe, T. (95) 125)

Taste organ; Ontogeny; Immunohistochemistry; Bullfrog (Kusakabe, T. (96) 285)

Neurophysiology
Cocaine; Hippocampus; Long-term potentiation; Pregnancy; Rabbit (Little, J.Z. (92) 117)

Neuroplasticity
GAP-43 mRNA; Cerebellum; Inferior olive; In situ hybridization; Synaptogenesis; Axonal outgrowth; Cerebellar granule cell; Cerebellar nucleus (Console-Bram, L.M. (95) 97)

Neuroprotection
Ibotenic acid; Kynurenic acid; Kynurenine; Neurodegeneration; Quinolinic acid (Ceresoli, G. (92) 61)

Hypoxia; Ischemia; Sodium channel; Stroke; Rat pup; Calpain; Spectrin breakdown (Vartanian, M.G. (95) 169)

Neuroteratogenicity
Fetal valproate syndrome; Whole embryo culture; Whole mount immunostaining (Gofflot, F. (93) 62)

Neurotransmitter
Embryonic stem cell; Neuronal differentiation; Retinoic acid; Phosphotyrosine phosphatase alpha; Patch clamp; Voltage clamp; Active current (Van Inzen, W.G. (91) 304)

Neurotrophic factor
Serotonin; Fetal alcohol syndrome; Ethanol; Astroglia (Kim, J.-A. (96) 1)

Neurogenesis; Cerebellum; Transforming growth factor-β2; Neuroblasts; Neuronal proliferation; DNA synthesis; Cell culture (Kane, C.J.M. (96) 46)

Neurotrophin
Cochleovestibular ganglion; Otocyst; In vitro; Antinsense oligonucleotide; Neuronal survival; Neuritogenesis; Neurite guidance (Staecker, H. (92) 49)

Cytokine; Sensory neuron; Chromaffin cell; Target-derived neurotrophic factor (Krieglstein, K. (93) 10)

Neuronal death; Tyrosine phosphorylation; Brain-derived neurotrophic factor; Phospholipase C_γ (Nonomura, T. (97) 42)

Neurotrophin 3
Neurogenesis; Growth factor; Mitogen; Vasoactive intestinal peptide; Epidermal growth factor; Insulin; Sympathetic neuroblasts (Lu, N. (94) 31)

Neurulation
Neural tube defect (Blackshear, P.J. (96) 62)

Nicotine
Prenatal; Memory; Working memory; T-maze; Radial-arm maze; Phenoxybenzamine; Phenylpropanolamine; Isoproterenol (Levin, E.D. (97) 207)

Nicotinic antagonist
Ciliary ganglion; K^+ current; Neuronal differentiation; Trophic factor; Cell death (Subramony, P. (91) 149)

Nicotinic receptor
Alpha-3 subunit; Alpha-8 subunit; Autoradiography; Immunocytochemistry; Cell generation; [^{3}H]Thymidine (Gardino, P.F. (95) 205)

Nidogen
Laminin; Kainate; Vascular cell; Basement membrane; Glial cell; Mossy fiber sprouting (Niquet, J. (95) 227)

NMDA
ACTH; Corticosterone; Development; Kainic acid; Ontogeny; Stress hyporesponsive period (Kent, S. (94) 1)

NMDA and non-NMDA receptors
Phorbol ester binding; PKC translocation; Developmental change; Cerebellar granule cells (Barrios, M. (94) 22)

NMDA receptor
NR1 subunit; Fusion protein; Antibody; Quantitative immunoblot; Development (Luo, J. (92) 10)

AMPA receptor; Patch/matrix organization; Corticostriatal; Development (Snyder-Keller, A. (94) 246)

Monosodium glutamate; Hippocampus; Hypothalamus; Cerebral cortex; (+)-3-[^{125}I]MK-801 binding (Otoya, R.E. (95) 149)

Non-barrier structure
Double labelling immunofluorescence; Brain capillary; Brain maturation; Tight barrier structure (Zeller, K. (91) 200)

Noradrenaline
Prefrontal cortex; 6-Hydroxydopamine; Gamma-aminobutyric acid; Development; Behavior (Podkletnova, I. (94) 197)

Noradrenergic neuron
Development; Locus coeruleus; Immunohistochemistry; Adrenergic terminal; Anti-tyrosine hydroxylase serum; Anti-phenylethanolamine *N*-methyltransferase serum; Rat (Saito, N. (96) 241)

Norepinephrine
Biogenic amine; Catecholamine; Tyrosine hydroxylase; Hypoglossal nucleus; Rat; Tongue; Ontogeny (Aldes, L.D. (91) 83)

Hypothalamus; Restraint; Utilization; Release (Choi, S.J. (94) 144)

Northern blot
Myelin; Hypomyelinating mutant; Caprine β-mannosidosis; mRNA; Myelin-associated glycoprotein; Myelin basic protein; Proteolipid protein (Sasaki, M. (91) 131)

Northern blot analysis
Mast cells; Cerebrovascular; Differentiation; Phenotype; Protease; Development; Immunohistochemistry; In situ hybridization (Dimitriadou, V. (97) 29)

NO-synthase
Development; Histoenzymology; Tyrosine hydroxylase; Immunocytochemistry (Samama, B. (96) 192)

NR2C
Transgenic mutant; Granule cells; Purkinje cells; PKCγ; Pattern formation; Synaptogenesis (Ji, Z. (97) 138)

NR1 subunit
NMDA receptor; Fusion protein; Antibody; Quantitative immunoblot; Development (Luo, J. (92) 10)

NSD 1015
L-β-3,4-Dihydroxyphenylalanine; 3-Hydroxybenzylhydrazine dihydrochloride; Locomotion; Activity; Ontogeny (Arnaiz, C.O. (94) 234)

Nuclear hormone receptors
COUP-TF; Retinoic acid; Mouse (Brubaker, K. (93) 198)

O

Obesity
Paraventricular nucleus; Dopamine-β-hydroxylase; Development; Insulin; Differentiation (Jones, A.P. (97) 16)

Odor
Glomerulus; Naris closure; Olfactory deprivation; Olfactory nerve; Synapse; Synaptic vesicle (Johnson, B.A. (92) 24)

Offspring
μ-Opioid receptor; Prenatal stress; Downregulation (Sanchez, M.D. (94) 14)

6-OHDA
c-*Fos*; Dopamine; D1 receptor; Muscarinic receptor; Development; Striatum; Immunohistochemistry; Scopolamine; SKF 38393 (Sandstrom, M.I. (96) 148)

Olfactory
Migration; GnRH; Thalamus; Quail–chick chimera; Development (Gao, C. (91) 237)

Olfactory deprivation
Glomerulus; Naris closure; Odor; Olfactory nerve; Synapse; Synaptic vesicle (Johnson, B.A. (92) 24)

Olfactory epithelium
Ensheathing cell; Axogenesis; Axon growth; Migration; Development (Tennent, R. (95) 135)

Olfactory receptor maturation; Olfactory neural development; Thyroid hormones; Thyroid and neural development; Developmental plasticity; Recovery from neural retardation; Compensatory neural growth; Neuronal maturation (Paternostro, M.A. (96) 173)

Olfactory nerve
Glomerulus; Naris closure; Odor; Olfactory deprivation; Synapse; Synaptic vesicle (Johnson, B.A. (92) 24)

Olfactory neural development
Olfactory epithelium; Olfactory receptor maturation; Thyroid hormones; Thyroid and neural development; Developmental plasticity; Recovery from neural retardation; Compensatory neural growth; Neuronal maturation (Paternostro, M.A. (96) 173)

Olfactory neurons
Central nervous system; Intra-uterus transplantation; Differentiation; Cell reaggregation (Magrassi, L. (96) 11)

Olfactory placode
Development; Colocalization; Nervus terminalis; Catecholamine (Verney, C. (97) 251)

Olfactory receptor maturation
Olfactory epithelium; Olfactory neural development; Thyroid hormones; Thyroid and neural development; Developmental plasticity; Recovery from neural retardation; Compensatory neural growth; Neuronal maturation (Paternostro, M.A. (96) 173)

Olfactory system
Programmed cell death; Cell proliferation; Cell migration; Neurogenesis; Subventricular zone; Subependymal zone (Brunjes, P.C. (92) 219)

Glial fibrillary acidic protein; Glial morphology (Chiu, K. (95) 28)

Luteinizing hormone releasing hormone; Reproduction; Cell migration; Vomeronasal organ; Cribriform plate (Tobet, S.A. (97) 287)

Oligodendrocyte
Iron histochemistry; Evolution; Glia; Myelin; Neuron (Erb, G.L. (93) 120)

Astrocyte; Human; Immunocytochemistry; Ganglioside; Galactolipid; Monoclonal antibody (Satoh, J.-i. (93) 172)

Ontogenesis
FMRFamide; Cardioexcitatory tetrapeptide; Brain; Frog; Immunohistochemistry (D'Aniello, B. (95) 194)

Ontogeny
Biogenic amine; Catecholamine; Norepinephrine; Tyrosine hydroxylase; Hypoglossal nucleus; Rat; Tongue (Aldes, L.D. (91) 83)

Epilepsy; Afterdischarge; Dentate gyrus; CA1; Extracellular potassium (Stringer, J.L. (91) 136)

Hippocampal slice; Long-term incubation; Ischemia; Energy metabolism; Protein synthesis (Berger, R. (91) 281)

Striate cortex; Differentiation; Blockade of spontaneous activity; In vitro; Protein blot (Kierstein, G. (92) 39)

Mineralocorticoid receptor; Glucocorticoid receptor; Maternal deprivation; ACTH; Hippocampus; Rat (Sutanto, W. (92) 156)

HPA-axis; Dopamine system; Selection line; Corticosterone receptor (Rots, N.Y. (92) 164)

Dopamine uptake; Striatum; Cocaine receptor; RTI-55; Dopamine neuron (Coulter, C.L. (92) 172)

ACTH; Corticosterone; Development; Kainic acid; NMDA; Stress hyporesponsive period (Kent, S. (94) 1)

Neonatal hypoxia-ischemia; Dopamine receptor; D_1 receptor; D_2 receptor; In situ hybridization; Receptor autoradiography; Striatum; Plasticity (Filloux, F.M. (94) 81)

In situ hybridization; Brain mapping; Caffeine; P_1-purinergic receptor (Weaver, D.R. (94) 205)

L-β-3,4-Dihydroxyphenylalanine; 3-Hydroxybenzylhydrazine dihydrochloride; NSD 1015; Locomotion; Activity (Arnaiz, C.O. (94) 234)

Striatum; Substance P receptor; Patch-matrix compartment; Projection neuron; Intrinsic neuron; Dopamine; DARPP-32 (Tokuno, H. (95) 107)

Mouse; Submandibular gland; Neuropeptide; Immunohistochemistry (Kusakabe, T. (95) 125)

Anandamide; Antiemetic; Behavior; Cannabinoids; Development; Tetrahydrocannabinol (Fride, E. (95) 131)

GnRH neuron; Migration; Chimeric embryo; Aves; Terminal nerve; FMRFamide neuron (Yamamoto, N. (95) 234)

Taste organ; Neuropeptide; Immunohistochemistry; Bullfrog (Kusakabe, T. (96) 285)

Peripheral-type benzodiazepine receptor; Rat; Brain (Kurumaji, A. (97) 148)

Lectin; Hippocampal formation; Immunocytochemistry; Interneuron; *N*-Acetylgalactosamine; Perineuronal net; Subicular complex (Bausch, S.B. (97) 169)

Ontogeny of α_2-receptors
Adrenergic α_2-receptors; Alpha-2A; Alpha-2C; [^{3}H]RX821002; [^{3}H]Rauwolscine (Savola, M.K.T. (94) 106)

μ-Opioid receptor
Prenatal stress; Offspring; Downregulation (Sanchez, M.D. (94) 14)

Opioid receptors
Neuritogenesis; Morphine; Nerve growth factor; Regeneration (Tenconi, B. (94) 175)

Optic chiasm
LHRH; Optic nerve; Optic tract; Rat; Immunocytochemistry (Santacana, M. (91) 292)

Optic nerve
LHRH; Optic chiasm; Optic tract; Rat; Immunocytochemistry (Santacana, M. (91) 292)

Optic tract
LHRH; Optic nerve; Optic chiasm; Rat; Immunocytochemistry (Santacana, M. (91) 292)

Organum vasculosum of the lamina terminalis
Swine; Development; Hypothalamus; Immunohistochemistry; Median eminence (Pearson, P.L. (95) 157)

Otocyst
Cochleovestibular ganglion; In vitro; Antinsense oligonucleotide; Neurotrophin; Neuronal survival; Neuritogenesis; Neurite guidance (Staecker, H. (92) 49)

P

Paracrine regulation
Cerebellum; Morphogenesis; Choroid plexus; Neurite outgrowth; Retinoic acid; Retinaldehyde dehydrogenase; Cerebrospinal fluid (Yamamoto, M. (93) 182)

Paralysis
Motoneuron; Nerve-muscle interaction; Activity; Motor unit; Development (Greensmith, L. (94) 152)

Paranodal apparatus
Peripheral nerve; Myelination; Axoglial junctions; Bracelets of Nageotte (Yamamoto, K. (96) 36)

Paraventricular nucleus
Obesity; Dopamine-β-hydroxylase; Development; Insulin; Differentiation (Jones, A.P. (97) 16)

Parietal cortex
Brain development; Islands of Calleja; Ventral striatum; Thalamus; Schizophrenia (Demotes-Mainard, J. (94) 166)

Paroxetine, binding to serotonin transporter
Dexamethasone, effects on serotonin transporter; Glucocorticoids, effects on serotonin transporter; Serotonin transporter, development (Slotkin, T.A. (93) 155)

Parthenogenetic cell
Genomic imprinting; Chimera; Androgenetic cell; Hypothalamus; Telencephalon; Development (Keverne, E.B. (92) 91)

Partial trisomy 16
Down syndrome; Hippocampus; Cyclic AMP (Dierssen, M. (95) 122)

Parvalbumin
Immunohistochemistry; Calcium binding protein; Calbindin; Development; Human retina (Nag, T.C. (93) 23)

Patch
Striosome; Matrix; Basal ganglia development; Rodent; Protein tyrosine phosphatase (Raghunathan, A. (91) 190)

Patch clamp
Development; Hypoxia; Rat; Respiration; Ventrolateral medulla (Nolan, P.C. (91) 111)

Embryonic stem cell; Neuronal differentiation; Retinoic acid; Phosphotyrosine phosphatase alpha; Voltage clamp; Active current; Neurotransmitter (Van Inzen, W.G. (91) 304)

Immunofluorescence; Neurofilament subunit; Embryonic neurons; Coculture; Maturation (Steinschneider, R. (95) 15)

Patch-matrix compartment
Striatum; Substance P receptor; Ontogeny; Projection neuron; Intrinsic neuron; Dopamine; DARPP-32 (Tokuno, H. (95) 107)

Patch / matrix organization
AMPA receptor; NMDA receptor; Corticostriatal; Development (Snyder-Keller, A. (94) 246)

Patch mutation
PDGFα receptor; Motoneuron; Cell death; Mouse embryo (Li, L. (96) 204)

Pattern formation
Transgenic mutant; Granule cells; Purkinje cells; PKCγ; NR2C; Synaptogenesis (Ji, Z. (97) 138)

PC12 cells
VGF; Hippocampus; Neuronal polarization; Large dense core vesicles; Secretory granules (Benson, D.L. (96) 219)

PDGFα receptor
Patch mutation; Motoneuron; Cell death; Mouse embryo (Li, L. (96) 204)

Perinatal
Acetylcholine; Dopamine; Methadone; Rat; Serotonin (Robinson, S.E. (95) 118)

Perinatal development
Sexual differentiation; Estrogen receptor; Hypothalamus; Rat; Immunohistochemistry (Pasterkamp, R.J. (91) 300)

Perineuronal net
Lectin; Hippocampal formation; Immunocytochemistry; Interneuron; *N*-Acetylgalactosamine; Ontogeny; Subicular complex (Bausch, S.B. (97) 169)

Peripheral nerve
Galactose-1-phosphate uridyltransferase; Myelination; Brain (Daude, N. (94) 190)

Myelination; Paranodal apparatus; Axoglial junctions; Bracelets of Nageotte (Yamamoto, K. (96) 36)

Peripheral nervous system
Neural crest; Neuroblastoma; Stem cell; RT4; Rat; cAMP; Differentiation (Donahue, L.M. (94) 67)

Peripheral-type benzodiazepine receptor
Ontogeny; Rat; Brain (Kurumaji, A. (97) 148)

Peripherin
Transgenic mouse; *lacZ* reporter; Intragenic sequence; Gene regulation (Leconte, L. (92) 1)

Phenotype
Mast cells; Cerebrovascular; Differentiation; Protease; Development; Immunohistochemistry; Northern blot analysis; In situ hybridization (Dimitriadou, V. (97) 29)

Phenoxybenzamine
Prenatal; Nicotine; Memory; Working memory; T-maze; Radial-arm maze; Phenylpropanolamine; Isoproterenol (Levin, E.D. (97) 207)

Phenylpropanolamine
Prenatal; Nicotine; Memory; Working memory; T-maze; Radial-arm maze; Phenoxybenzamine; Isoproterenol (Levin, E.D. (97) 207)

Phorbol ester binding
NMDA and non-NMDA receptors; PKC translocation; Developmental change; Cerebellar granule cells (Barrios, M. (94) 22)

Phosphoinositide hydrolysis
Hypoxia-ischemia in utero; Metabotropic glutamate receptor; Quisqualate; Cerebellar granule cell (Rhodes, P.G. (93) 129)

Phospholipase
Long-term potentiation; Development; Synaptoneurosome; Glutamate receptor (Chabot, C. (93) 70)

Phospholipase C_γ
Neurotrophin; Neuronal death; Tyrosine phosphorylation; Brain-derived neurotrophic factor (Nonomura, T. (97) 42)

Phosphotyrosine phosphatase alpha
Embryonic stem cell; Neuronal differentiation; Retinoic acid; Patch clamp; Voltage clamp; Active current; Neurotransmitter (Van Inzen, W.G. (91) 304)

Photoreceptor
Axonal cell adhesion molecule; In situ hybridisation; Development; Retina; Chick; Ganglion cell; Amacrine cell (Morino, P. (91) 252)

Retinal pigment epithelium; Trophic factor; Retinal explant; Progenitor cell (Sheedlo, H.J. (93) 88)

CD44; Cell adhesion; Immunoperoxidase; Müller cells; Retina (Chaitin, M.H. (94) 92)

Pilocarpine
Epilepsy; Seizure; Status epilepticus; Brain damage; Animal model; Behavioral test (Tandon, P. (95) 256)

PKCγ
Transgenic mutant; Granule cells; Purkinje cells; NR2C; Pattern formation; Synaptogenesis (Ji, Z. (97) 138)

PKC translocation
NMDA and non-NMDA receptors; Phorbol ester binding; Developmental change; Cerebellar granule cells (Barrios, M. (94) 22)

Plasticity
Cerebellum; Development; Marsupial; Regeneration; Spinal cord (Terman, J.R. (93) 33)

Neonatal hypoxia-ischemia; Ontogeny; Dopamine receptor; D_1 receptor; D_2 receptor; In situ hybridization; Receptor autoradiography; Striatum (Filloux, F.M. (94) 81)

Visual system; Activity dependence; Development; Ponto-geniculo-occipital wave; Monocular occlusion; Lateral geniculate nucleus (Oksenberg, A. (97) 51)

Ponto-geniculo-occipital wave
Visual system; Activity dependence; Development; Plasticity; Monocular occlusion; Lateral geniculate nucleus (Oksenberg, A. (97) 51)

Postembryonic development
Apoptosis; Programmed cell death; Postnatal neurogenesis; Cerebellum; TUNEL method; Gymnotiformes; Teleostei; Fish; *Apteronotus leptorhynchus* (Soutschek, J. (97) 279)

Postnatal
Corpus callosum; Testosterone; Prenatal; Sex; Testosterone surge (Mack, C.M. (95) 252)

Postnatal development
Pretectum; LGNd; Retrograde transport; GAD in situ hybridisation; Calcium binding protein (Reimann, S. (91) 143)

Calmodulin mRNA; In situ hybridization; Visual projection (Berry, F.B. (91) 171)

Rat striatum; Adenosine A_{2a} receptor; Autoradiography; CGS 21680 binding (Doriat, J.-F. (93) 1)

Postnatal neurogenesis
Apoptosis; Programmed cell death; Postembryonic development; Cerebellum; TUNEL method; Gymnotiformes; Teleostei; Fish; *Apteronotus leptorhynchus* (Soutschek, J. (97) 279)

Potassium
5-Methylcytidine; Monoclonal antibody; Apoptosis; Cerebellar granule cell (Bertino, L. (95) 38)

Potassium current
Thalamus; Spike bursting; Calcium current; Whole cell recording; Voltage clamp (Perez Velazquez, J.L. (91) 164)

P_1-purinergic receptor
In situ hybridization; Brain mapping; Caffeine; Ontogeny (Weaver, D.R. (94) 205)

Prefrontal cortex
6-Hydroxydopamine; Noradrenaline; Gamma-aminobutyric acid; Development; Behavior (Podkletnova, I. (94) 197)

Calcium-binding protein; Local circuit neuron; Chandelier neuron; Basket neuron (Condé, F. (96) 261)

Pregnancy
Cocaine; Hippocampus; Long-term potentiation; Rabbit; Neurophysiology (Little, J.Z. (92) 117)

Prenatal
Cocaine; S-100; GAP-43; BrdU; Vimentin; Gliogenesis (Clarke, C. (91) 268)

Corpus callosum; Testosterone; Postnatal; Sex; Testosterone surge (Mack, C.M. (95) 252)

Nicotine; Memory; Working memory; T-maze; Radial-arm maze; Phenoxybenzamine; Phenylpropanolamine; Isoproterenol (Levin, E.D. (97) 207)

Prenatal stress
μ-Opioid receptor; Offspring; Downregulation (Sanchez, M.D. (94) 14)

Preoptic area
Estrogen receptor; Area-specific expression; Brain chimera; Quail; Chick (Gahr, M. (92) 182)

Estrogen receptor; Sexual differentiation; Development; Tamoxifen; Diethylstilbestrol; Intrauterine association (DonCarlos, L.L. (94) 224)

Prepacemaker nucleus
Somatostatin; BrdU; Double labelling; Proliferation; Neurogenesis; Electric fish; Gymnotiformes; *Apteronotus leptorhynchus* (Stroh, T. (93) 76)

Pretectum
LGNd; Retrograde transport; GAD in situ hybridisation; Calcium binding protein; Postnatal development (Reimann, S. (91) 143)

Primary afferent input
Development; Dorsal horn (Coggeshall, R.E. (92) 81)

Primary culture
Reissner's fiber; Subcommissural organ; Neuronal aggregation; Development (Monnerie, H. (96) 120)

Progenitor cell
Retinal pigment epithelium; Trophic factor; Retinal explant; Photoreceptor (Sheedlo, H.J. (93) 88)

Programmed cell death
Nerve growth factor; Brain-derived neurotrophic factor; High potassium; Basal forebrain (Abiru, Y. (91) 260)

Olfactory system; Cell proliferation; Cell migration; Neurogenesis; Subventricular zone; Subependymal zone (Brunjes, P.C. (92) 219)

Apoptosis; DNA fragmentation; TUNEL; Retina; Microglia; Müller cells (Egensperger, R. (97) 1)

Cell cycle; Cyclin D1; RT-PCR; High-potassium medium (Oka, T. (97) 96)

Apoptosis; Postnatal neurogenesis; Postembryonic development; Cerebellum; TUNEL method; Gymnotiformes; Teleostei; Fish; *Apteronotus leptorhynchus* (Soutschek, J. (97) 279)

Projection neuron
Striatum; Substance P receptor; Ontogeny; Patch-matrix compartment; Intrinsic neuron; Dopamine; DARPP-32 (Tokuno, H. (95) 107)

Proliferation
Somatostatin; BrdU; Double labelling; Neurogenesis; Prepacemaker nucleus; Electric fish; Gymnotiformes; *Apteronotus leptorhynchus* (Stroh, T. (93) 76)

Prostaglandin
Prostaglandin-H synthase; Cyclooxygenase; Sheep; Development; Fetus; Brain; Fetal breathing (Norton, J.L. (95) 79)

Prostaglandin-H synthase
Cyclooxygenase; Prostaglandin; Sheep; Development; Fetus; Brain; Fetal breathing (Norton, J.L. (95) 79)

Protease
Mast cells; Cerebrovascular; Differentiation; Phenotype; Development; Immunohistochemistry; Northern blot analysis; In situ hybridization (Dimitriadou, V. (97) 29)

Protein blot
Striate cortex; Ontogeny; Differentiation; Blockade of spontaneous activity; In vitro (Kierstein, G. (92) 39)

Protein kinase
Protein phosphorylation; Development; Cerebral cortex; Cytoskeleton; Protein phosphatase (De Mattos-Dutra, Â. (96) 76)

Protein kinase C
Glutamate; Glia; Heparan sulfate; Chondroitin sulfate; Hippocampus (Chisamore, B. (97) 22)

Protein phosphatase
Protein phosphorylation; Development; Cerebral cortex; Cytoskeleton; Protein kinase (De Mattos-Dutra, Â. (96) 76)

Protein phosphorylation
Development; Cerebral cortex; Cytoskeleton; Protein kinase; Protein phosphatase (De Mattos-Dutra, Â. (96) 76)

Protein synthesis
Hippocampal slice; Long-term incubation; Ontogeny; Ischemia; Energy metabolism (Berger, R. (91) 281)

Protein tyrosine phosphatase
Striosome; Patch; Matrix; Basal ganglia development; Rodent (Raghunathan, A. (91) 198)

Proteolipid protein
Myelin; Hypomyelinating mutant; Caprine β-mannosidosis; mRNA; Northern blot; Myelin-associated glycoprotein; Myelin basic protein (Sasaki, M. (91) 131)

Proto-oncogene
C-ets1; Angiogenesis; Development; Hypothalamic magnocellular nuclei; Hypophysis; Rat; In situ hybridization (Laurent-Huck, F.M. (97) 107)

Purkinje cell
Glutamate receptor channel δ2 subunit; Developmental change; Synapse formation; In situ hybridization; Immunohistochemistry (Takayama, C. (92) 147)

IGF; IGFBP-5; Development; Nervous system; Schwann cell; Immunohistochemistry (Cheng, H.-L. (92) 211)

Cerebellum; Granule cell; Development; IGF-I; Transgenic mouse (Ye, P. (95) 44)

Cerebellar pattern formation; *Engrailed-2* gene; Spinocerebellar mossy fiber; Foliation; Homeobox gene; Granule cell (Vogel, M.W. (96) 210)

Purkinje cell maturation
Fastigial nucleus; Granule cell; Immunohistochemistry; Signal transduction; *src* proto-oncogene (Chen, S. (92) 140)

Purkinje cells
Transgenic mutant; Granule cells; PKCγ; NR2C; Pattern formation; Synaptogenesis (Ji, Z. (97) 138)

Pyknosis
Apoptosis; Corpus callosum; Macrophage; Cortical plate; Subplate; Intermediate zone; Ventricular zone (Johnson, J.K. (94) 159)

Pyramidal cell
Mossy fiber; Hippocampal formation; Timm staining; Golgi impregnation; Dreher mouse (Sekiguchi, M. (92) 31)

Pyramidal cell differentiation
Dendrite growth; Neocortical development; Ganglioside localization; Ganglioside function (Goodman, L.A. (93) 162)

Pyramidal tract
Neural cell adhesion molecule; Corticospinal tract; Growth cone; Guidance; L1 ; Tract formation (Joosten, E.A.J. (94) 99)

Q

Quail
Estrogen receptor; Area-specific expression; Brain chimera; Chick; Preoptic area (Gahr, M. (92) 182)

Neural crest; Retinoic acid; Adrenergic cell; Thyroid hormone (Rockwood, J.M. (96) 184)

Quail–chick chimera
Migration; GnRH; Olfactory; Thalamus; Development (Gao, C. (91) 237)

Quantitative assessment
Myelination; Immunohistochemistry; Nerve pathway; Rat (Hamano, K. (93) 18)

Quantitative immunoblot
NMDA receptor; NR1 subunit; Fusion protein; Antibody; Development (Luo, J. (92) 10)

Quantitative study
Reptile; Lizard; Adult neurogenesis; [^{3}H]Thymidine; Bromodeoxyuridine (Pérez-Cañellas, M.M. (93) 49)

Quinolinic acid
Ibotenic acid; Kynurenic acid; Kynurenine; Neurodegeneration; Neuroprotection (Ceresoli, G. (92) 61)

Quisqualate
Hypoxia-ischemia in utero; Metabotropic glutamate receptor; Phosphoinositide hydrolysis; Cerebellar granule cell (Rhodes, P.G. (93) 129)

R

Rab3A
Bromodeoxyuridine; Synaptotagmin (p65); Synaptophysin (p38); Synaptosomal-associated protein-25 (SNAP-25) (West Greenlee, M.H. (96) 159)

Rabbit
Cocaine; Hippocampus; Long-term potentiation; Pregnancy; Neurophysiology (Little, J.Z. (92) 117)

Radial-arm maze
Prenatal; Nicotine; Memory; Working memory; T-maze; Phenoxybenzamine; Phenylpropanolamine; Isoproterenol (Levin, E.D. (97) 207)

Rarefaction
Cerebrovascular circulation; Capillary; Neonatal development; Shear stress (Fehér, G. (91) 209)

Rat
Biogenic amine; Catecholamine; Norepinephrine; Tyrosine hydroxylase; Hypoglossal nucleus; Tongue; Ontogeny (Aldes, L.D. (91) 83)

Development; Hypoxia; Patch clamp; Respiration; Ventrolateral medulla (Nolan, P.C. (91) 111)

Corticotropin releasing hormone; Receptor; Messenger RNA; Amygdala; Hippocampus; Development (Avishai-Eliner, S. (91) 159)

Epilepsy; Infant; Hippocampus (Ribak, C.E. (91) 245)

LHRH; Optic nerve; Optic chiasm; Optic tract; Immunocytochemistry (Santacana, M. (91) 292)

Perinatal development; Sexual differentiation; Estrogen receptor; Hypothalamus; Immunohistochemistry (Pasterkamp, R.J. (91) 300)

Carbon dioxide; Hyperthermia; Seizure; Hyperpnea; Fever (Morimoto, T. (92) 77)

1,25-Dihydroxyvitamin D_3 receptor; Fetal; Dorsal root ganglia; Neuron; Calbindin-D_{28k} (Johnson, J.A. (92) 120)

Mineralocorticoid receptor; Glucocorticoid receptor; Maternal deprivation; ACTH; Hippocampus; Ontogeny (Sutanto, W. (92) 156)

Myelination; Immunohistochemistry; Quantitative assessment; Nerve pathway (Hamano, K. (93) 18)

Development; Hippocampus; Epileptogenesis; 4-Aminopyridine; Immature (Psarropoulou, C. (94) 52)

Neural crest; Neuroblastoma; Stem cell; RT4; cAMP; Differentiation; Peripheral nervous system (Donahue, L.M. (94) 67)

Acetylcholine; Dopamine; Methadone; Perinatal; Serotonin (Robinson, S.E. (95) 118)

Development; Locus coeruleus; Immunohistochemistry; Noradrenergic neuron; Adrenergic terminal; Anti-tyrosine hydroxylase serum; Anti-phenylethanolamine *N*-methyltransferase serum (Saito, N. (96) 241)

Hypothalamus; Amygdala; Calbindin-D_{28K}; Development; Sexual differentiation; Western analysis (Lephart, E.D. (96) 281)

Acetylcholinesterase; Calcitonin gene-related peptide; Choline acetyltransferase; Enkephalin; Galanin; Galanin message-associated peptide (Holgert, H. (97) 88)

C-ets1; Proto-oncogene; Angiogenesis; Development; Hypothalamic magnocellular nuclei; Hypophysis; In situ hybridization (Laurent-Huck, F.M. (97) 107)

Development; Central pattern generator; Locomotion; Spinal cord; *N*-Methyl-D-aspartate (Ozaki, S. (97) 118)

Peripheral-type benzodiazepine receptor; Ontogeny; Brain (Kurumaji, A. (97) 148)

Nerve growth factor; Brain-derived neurotrophic factor; Enzyme immunoassay; Development (Zhou, J. (97) 297)

Rat brain
Development; GluR6; Kainate receptor; mRNA editing; Tissue culture (Schmitt, J. (91) 153)

Rate constant
Sodium current; Kinetics; Maturation; Hippocampus; CA1 (Costa, P.F. (91) 29)

Rat pup
Neuroprotection; Hypoxia; Ischemia; Sodium channel; Stroke; Calpain; Spectrin breakdown (Vartanian, M.G. (95) 169)

Rat retina
Facilitated-diffusion glucose transporter; GLUT3; Neuron; Glucose homeostasis (Watanabe, T. (94) 60)

Rat striatum
Postnatal development; Adenosine A_{2a} receptor; Autoradiography; CGS 21680 binding (Doriat, J.-F. (93) 1)

Receptor
Corticotropin releasing hormone; Messenger RNA; Amygdala; Hippocampus; Development; Rat (Avishai-Eliner, S. (91) 159)

Dopamine; Transporter; mRNA; Cocaine; Fetal monkey brain; Ribonuclease protection assay (Choi, W.S. (96) 249)

Receptor assembly
$GABA_A$ receptor; Receptor regulation; Cerebellar granule neurons; Subunit-specific antibodies (Nadler, L.S. (97) 216)

Receptor autoradiography
Neonatal hypoxia-ischemia; Ontogeny; Dopamine receptor; D_1 receptor; D_2 receptor; In situ hybridization; Striatum; Plasticity (Filloux, F.M. (94) 81)

Dopamine; Striatum; D1 receptor; D2 receptor; Development; In situ hybridization (Jung, A.B. (94) 109)

Receptor ontogeny (melanotropic peptides)
α-Melanocyte stimulating hormone; Cortex; Thalamus; Striatum; Cranial nerve nuclei ganglia; Sympathetic ganglia (Lichtensteiger, W. (91) 93)

Receptor regulation
$GABA_A$ receptor; Receptor assembly; Cerebellar granule neurons; Subunit-specific antibodies (Nadler, L.S. (97) 216)

Recovery from neural retardation
Olfactory epithelium; Olfactory receptor maturation; Olfactory neural development; Thyroid hormones; Thyroid and neural development; Developmental plasticity; Compensatory neural growth; Neuronal maturation (Paternostro, M.A. (96) 173)

Recurrent seizures
Epilepsy; Seizures; Glutamate; Brain damage; Animal model (Liu, Z. (97) 178)

Red field
Cell-cell interaction; Synaptogenesis; Terminal differentiation; Maturation gradient; Functional gradient (Andressen, C. (95) 263)

Regeneration
Cerebellum; Development; Marsupial; Plasticity; Spinal cord (Terman, J.R. (93) 33)

Neuritogenesis; Morphine; Nerve growth factor; Opioid receptors (Tenconi, B. (94) 175)

Reissner's fiber
Subcommissural organ; Primary culture; Neuronal aggregation; Development (Monnerie, H. (96) 120)

Release
Norepinephrine; Hypothalamus; Restraint; Utilization (Choi, S.J. (94) 144)

Renal chemoreceptors
Substance P; Calcitonin gene-related peptide; Dorsal root ganglia; Retrograde tracing; Fluoro-Gold; Development (Doutova, E.A. (97) 260)

Reproduction
Luteinizing hormone releasing hormone; Olfactory system; Cell migration; Vomeronasal organ; Cribriform plate (Tobet, S.A. (97) 287)

Reptile
Lizard; Adult neurogenesis; [^{3}H]Thymidine; Bromodeoxyuridine; Quantitative study (Pérez-Cañellas, M.M. (93) 49)

Respiration
Development; Hypoxia; Rat; Patch clamp; Ventrolateral medulla (Nolan, P.C. (91) 111)

Respiratory network
Maturation; Mammal; Whole cell recording (Di Pasquale, E. (91) 121)

Restraint
Norepinephrine; Hypothalamus; Utilization; Release (Choi, S.J. (94) 144)

Retina
Axonal cell adhesion molecule; In situ hybridisation; Development; Chick; Ganglion cell; Amacrine cell; Photoreceptor (Morino, P. (91) 252)

CD44; Cell adhesion; Immunoperoxidase; Müller cells; Photoreceptor (Chaitin, M.H. (94) 92)

Apoptosis; Programmed cell death; DNA fragmentation; TUNEL; Microglia; Müller cells (Egensperger, R. (97) 1)

Retinaldehyde dehydrogenase
Cerebellum; Morphogenesis; Choroid plexus; Neurite outgrowth; Retinoic acid; Paracrine regulation; Cerebrospinal fluid (Yamamoto, M. (93) 182)

Retinal development
GABA; GABA-A receptor; Horizontal cell; Cone photoreceptor (Mitchell, C.K. (95) 63)

Retinal explant
Retinal pigment epithelium; Trophic factor; Progenitor cell; Photoreceptor (Sheedlo, H.J. (93) 88)

Retinal ganglion cell
Bifurcating axon; Bilateral projection; Dorsal lateral geniculate nucleus; Fluorescent tracer; Double labeling; Developmental study (Dong, K. (95) 55)

Retinotectal system; XR1 glial cell (Sakaguchi, D.S. (97) 235)

Retinal pigment epithelium
Trophic factor; Retinal explant; Progenitor cell; Photoreceptor (Sheedlo, H.J. (93) 88)

Amphibia; Cell division; [^{3}H]Thymidine (Beazley, L.D. (96) 290)

Retinoic acid
Embryonic stem cell; Neuronal differentiation; Phosphotyrosine phosphatase alpha; Patch clamp; Voltage clamp; Active current; Neurotransmitter (Van Inzen, W.G. (91) 304)

Cerebellum; Morphogenesis; Choroid plexus; Neurite outgrowth; Retinaldehyde dehydrogenase; Paracrine regulation; Cerebrospinal fluid (Yamamoto, M. (93) 182)

COUP-TF; Nuclear hormone receptors; Mouse (Brubaker, K. (93) 198)

Neural crest; Adrenergic cell; Thyroid hormone; Quail (Rockwood, J.M. (96) 184)

Retinotectal system
Retinal ganglion cell; XR1 glial cell (Sakaguchi, D.S. (97) 235)

Retrograde tracing
Striatum; Compartment; Substantia nigra; Development (Van der Kooy, D. (94) 242)

Substance P; Calcitonin gene-related peptide; Dorsal root ganglia; Renal chemoreceptors; FluoroGold; Development (Doutova, E.A. (97) 260)

Retrograde transport
Pretectum; LGNd; GAD in situ hybridisation; Calcium binding protein; Postnatal development (Reimann, S. (91) 143)

Rett syndrome
192 IgG-saporin; Acetylcholine; Brain development; Spatial learning/memory; Hippocampus; Sympathetic ingrowth; Down syndrome (Pappas, B.A. (96) 52)

Reuptake
Serotonin; Fetal alcohol syndrome; Ethanol; Buspirone; 5-HT$_{1A}$ (Kim, J.-A. (92) 190)

Ribonuclease protection assay
Dopamine; Receptor; Transporter; mRNA; Cocaine; Fetal monkey brain (Choi, W.S. (96) 249)

mRNA
Myelin; Hypomyelinating mutant; Caprine β-mannosidosis; Northern blot; Myelin-associated glycoprotein; Myelin basic protein; Proteolipid protein (Sasaki, M. (91) 131)

Dopamine; Receptor; Transporter; Cocaine; Fetal monkey brain; Ribonuclease protection assay (Choi, W.S. (96) 249)

mRNA differential display
Guanylyl cyclase; Hybridization, in situ; Development (Smigrodzki, R. (97) 226)

mRNA editing
Development; GluR6; Kainate receptor; Rat brain; Tissue culture (Schmitt, J. (91) 153)

Rodent
Striosome; Patch; Matrix; Basal ganglia development; Protein tyrosine phosphatase (Raghunathan, A. (91) 190)

RT4
Neural crest; Neuroblastoma; Stem cell; Rat; cAMP; Differentiation; Peripheral nervous system (Donahue, L.M. (94) 67)

RTI-55
Dopamine uptake; Ontogeny; Striatum; Cocaine receptor; Dopamine neuron (Coulter, C.L. (92) 172)

RT-PCR
Cell cycle; Programmed cell death; Cyclin D1; High-potassium medium (Oka, T. (97) 96)

S

S-100
Cocaine; GAP-43; BrdU; Vimentin; Gliogenesis; Prenatal (Clarke, C. (91) 268)

Schizophrenia
Brain development; Islands of Calleja; Ventral striatum; Thalamus; Parietal cortex (Demotes-Mainard, J. (94) 166)

Schwann cell
IGF; IGFBP-5; Development; Nervous system; Purkinje cell; Immunohistochemistry (Cheng, H.-L. (92) 211)

Scopolamine
c-*Fos*; Dopamine; D1 receptor; Muscarinic receptor; 6-OHDA; Development; Striatum; Immunohistochemistry; SKF 38393 (Sandstrom, M.I. (96) 148)

Secretory granules
VGF; Hippocampus; PC12 cells; Neuronal polarization; Large dense core vesicles (Benson, D.L. (96) 219)

Seizure
Carbon dioxide; Hyperthermia; Rat; Hyperpnea; Fever (Morimoto, T. (92) 77)

Epilepsy; Status epilepticus; Brain damage; Pilocarpine; Animal model; Behavioral test (Tandon, P. (95) 256)

Epilepsy; Glutamate; Brain damage; Recurrent seizures; Animal model (Liu, Z. (97) 178)

Selection line
Ontogeny; HPA-axis; Dopamine system; Corticosterone receptor (Rots, N.Y. (92) 164)

Sensory neuron
DRG; Calcium imaging; Growth cone; Channel cluster (Amato, A. (92) 101)

Neurotrophin; Cytokine; Chromaffin cell; Target-derived neurotrophic factor (Krieglstein, K. (93) 10)

Serotonergic neurons
Floor plate; Subcommissural organ; Flexural organ; Immunocytochemistry (Rodríguez, E.M. (97) 153)

Serotonin
Fetal alcohol syndrome; Ethanol; Buspirone; Reuptake; 5-HT$_{1A}$ (Kim, J.-A. (92) 190)

Acetylcholine; Dopamine; Methadone; Perinatal; Rat (Robinson, S.E. (95) 118)

Fetal alcohol syndrome; Ethanol; Astroglia; Neurotrophic factor (Kim, J.-A. (96) 1)

Serotonin transporter, development
Dexamethasone, effects on serotonin transporter; Glucocorticoids, effects on serotonin transporter; Paroxetine, binding to serotonin transporter (Slotkin, T.A. (93) 155)

Sex
Adolescent; Child; Corpus callosum; Development; MRI; Myelination (Giedd, J.N. (91) 274)

Corpus callosum; Testosterone; Prenatal; Postnatal; Testosterone surge (Mack, C.M. (95) 252)

Sex difference
Inter-strain variability; Culture; Genotype; Sex steroid; Dopamine uptake; HPLC; Tyrosine hydroxylase immunocytochemistry (Sibug, R. (93) 136)

Sex steroid
Inter-strain variability; Sex difference; Culture; Genotype; Dopamine uptake; HPLC; Tyrosine hydroxylase immunocytochemistry (Sibug, R. (93) 136)

Sexual differentiation
Perinatal development; Estrogen receptor; Hypothalamus; Rat; Immunohistochemistry (Pasterkamp, R.J. (91) 300)

Tyrosine hydroxylase; Immunocytochemistry; Morphometry; Survival (Lieb, K. (94) 37)

Estrogen receptor; Preoptic area; Development; Tamoxifen; Diethylstilbestrol; Intrauterine association (DonCarlos, L.L. (94) 224)

Hypothalamus; Amygdala; Calbindin-D_{28K}; Development; Rat; Western analysis (Lephart, E.D. (96) 281)

Shear stress
Cerebrovascular circulation; Capillary; Neonatal development; Rarefaction (Fehér, G. (91) 209)

Sheep
Adrenal medulla; Fetus; Hypoxia; Catecholamine; Calcium (Adams, M.B. (94) 182)

Constitutive nitric oxide synthase protein; Immunocytochemistry; Brain development; Cerebrovascular development (Northington, F.J. (95) 1)

Prostaglandin-H synthase; Cyclooxygenase; Prostaglandin; Development; Fetus; Brain; Fetal breathing (Norton, J.L. (95) 79)

Signal transduction
Fastigial nucleus; Granule cell; Immunohistochemistry; Purkinje cell maturation; *src* proto-oncogene (Chen, S. (92) 140)

SKF 38393
c-*Fos*; Dopamine; D1 receptor; Muscarinic receptor; 6-OHDA; Development; Striatum; Immunohistochemistry; Scopolamine (Sandstrom, M.I. (96) 148)

Slice culture
Gap junction; Connexin43; Astrocytes; Neurons (Perez Velazquez, J.L. (97) 293)

Sodium channel
Neuroprotection; Hypoxia; Ischemia; Stroke; Rat pup; Calpain; Spectrin breakdown (Vartanian, M.G. (95) 169)

Sodium current
Kinetics; Rate constant; Maturation; Hippocampus; CA1 (Costa, P.F. (91) 29)

Soma size
Dorsal root; TMPase; BHRP; Dendritic length (Goldstein, L.A. (91) 11)

Dorsal root; Steroid hormone; TMPase; BHRP; Dendritic length (Hays, T.C. (91) 20)

Somatostatin
BrdU; Double labelling; Proliferation; Neurogenesis; Prepacemaker nucleus; Electric fish; Gymnotiformes; *Apteronotus leptorhynchus* (Stroh, T. (93) 76)

Somatostatin sst_2 receptors
Autoradiography; In situ hybridization; Auditory system (Thoss, V.S. (97) 269)

Song control nucleus
Development; Brain; Synaptogenesis; GAP-43; Immunofluorescence; Zebra finch (Sakaguchi, H. (95) 245)

Spatial learning
Autoimmunity; Congenic strain; Cortical ectopia; Discrimination learning; Embryo transfer; Lashley maze; Morris maze; Y chromosome (Denenberg, V.H. (93) 100)

Spatial learning / memory
192 IgG-saporin; Acetylcholine; Brain development; Hippocampus; Sympathetic ingrowth; Down syndrome; Rett syndrome (Pappas, B.A. (96) 52)

β-Spectrin
Human fetal muscle; Dystrophin; Dystrophin-associated glycoprotein; Utrophin; Membrane cytoskeletal protein; Vinculin; Talin (Mora, M. (91) 70)

Spectrin breakdown
Neuroprotection; Hypoxia; Ischemia; Sodium channel; Stroke; Rat pup; Calpain (Vartanian, M.G. (95) 169)

Spike bursting
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Dopamine; Serotonin; C-*fos*; Immunohistochemistry; $5\text{-}HT_{1A}$ receptors; $5\text{-}HT_2$ receptors; $5\text{-}HT_3$ receptors; D_1 receptors; Agonists; Striatum; 6-OHDA; Rat (Rouillard, C. (37) 105)

Anterior piriform cortex
Amino acid imbalance; Rat; Anorexia; α_2-Noradrenergic receptor; Norepinephrine; Feeding; Hypothalamus (Gietzen, D.W. (35) 41)

Amino acid imbalanced diet; Threonine; Feeding behavior; Dorsomedial nucleus of the hypothalamus; Infralimbic cortex (Wang, Y. (40) 27)

Anterior pituitary
Somatostatin receptor; Gonadal regulation; Rat; Hybridization, in-situ (Señarís, R.M. (38) 171)

Antibody
$GABA_A$ receptor γ_2 subunit; $GABA_A$ receptor; Benzodiazepine receptor; mRNA; Rat brain; Aging (Gutiérrez, A. (35) 91)

Antidepressant
Neurotransmitter transporter; Cocaine; Ionic dependences; Raphe nuclei; Lipofection (Chang, A.S. (43) 185)

Antioxidant
Astrocyte; Apolipoprotein; Four-vessel occlusion (May, P.C. (42) 145)

Heme oxygenase; Glia; Heat shock protein; Stroke; Penumbra; Spreading depression; Cerebral ischemia; Translation (Nimura, T. (37) 201)

Antisense
Alzheimer's disease; β-Amyloid precursor protein; cGMP; Tumor necrosis factor; NF-κB; I-κBα/MAD3; Calcium; Free radical (Barger, S.W. (40) 116)

RNA; Oligodendrocyte; Transgenic strategy; Myelin; Myelin oligodendrocyte glycoprotein (MOG) (Jaquet, V. (43) 333)

Antisense DNA
Long-term potentiation; Hippocampus; CA1; Synaptic plasticity; Protein phosphatase; Calcineurin; FK506 (Ikegami, S. (41) 183)

Antisense oligodeoxynucleotide
Electroacupuncture; Fos; Jun; Preproenkephalin; Preprodynorphin (Guo, H.-F. (43) 167)

Antisense oligonucleotide
N-Methyl-D-aspartate receptor; Glutamate-binding protein; Ethanol; Cerebellar granule cell; NR1; NR2A (Hoffman, P.L. (39) 167)

NOR-1; Orphan nuclear receptor; Fetal brain; Neurite extension; Differentiation (Ohkura, N. (35) 309)

Antisense RNA
Heat shock gene; Central nervous system; Mouse (Murashov, A.K. (37) 85)

AP-1
Circadian rhythm; Immediate early gene; Optic nerve (Bennett, M.R. (42) 140)

Nerve growth factor; cAMP; 12-*O*-Tetradecanoyl phorbol-13-acetate; Intracellular Ca^{2+}; mRNA stability (Colangelo, A.M. (35) 1)

AP1
Ionomycin; Calcium; Gene expression; CREB (Nankova, B. (35) 164)

Tyrosine hydroxylase; Prostaglandin E_2; SK-N-BE(2)C cell; cAMP response element; Site-directed mutagenesis (Kim, J.-S. (39) 177)

AP2
Neurotransmitter receptor; Rat brain; Primer extension; Sp1; Luciferase assay (Maeno, H. (40) 97)

AP-1 DNA binding
Gene expression; Fos; Jun; Transcription factor; Hyperosmolality; Supraoptic nucleus; Paraventricular nucleus (Ying, Z. (39) 109)

AP-1 DNA binding activity
Astrocyte; Cell culture; Gene regulation; Neuron–glia interaction (Pennypacker, K.R. (37) 224)

AP1 element
Tyrosine hydroxylase; Muscarinic acetylcholine receptor; Rat pheochromocytoma cell; Gene regulation; Cyclic AMP response element (Chen, Y. (40) 42)

Aplysia
G-protein; Receptor; Adenylyl cyclase; Cyclic adenosine monophosphate; Bag cell peptide (Berry, R.W. (38) 176)

Long-term memory; CREB; cAMP (Dash, P.K. (39) 43)

Apolipoprotein
Astrocyte; Antioxidant; Four-vessel occlusion (May, P.C. (42) 145)

Apolipoprotein E
Amyloid precursor protein; Ribonucleic acid; Hybridization, in situ (Ali, S.M. (38) 37)

Apoptosis
Axotomy; Programmed cell death (Butterworth, N.J. (43) 1)

Bcl-2; Bax; c-Myc; Fos; Jun; Cell death; Ionizing radiation; Development; Nervous system (Ferrer, I. (38) 91)

Glutamate; Cortical neuron; Bcl-2; Herpes simplex virus (Jia, W.W.-G. (42) 350)

Glutamate; Nitric oxide synthase; NMDA; mRNA; Granule cell (Tascedda, F. (40) 171)

Radiation; Fetal rat brain; Messenger RNA; p53; Fos; JunB; Bax (Borovitskaya, A.E. (35) 19)

AP-1 transcription factor
Methamphetamine; Neurotoxicity (Sheng, P. (42) 171)

Arcuate nucleus
Neuropeptide Y; In situ hybridization histochemistry; Spontaneously hypertensive rat; Y_2 receptor; Nucleus tractus solitarius; Autoradiography (McLean, K.J. (35) 249)

L-Arginine
N-L-Arginine-methyl ester; Calcium/calmodulin-dependent phosphorylation; Major postsynaptic density protein; Nitric oxide; Nitric oxide synthase; Sodium nitroprusside; Synapse (Wu, K. (40) 22)

***N*-L-Arginine-methyl ester**
L-Arginine; Calcium/calmodulin-dependent phosphorylation; Major postsynaptic density protein; Nitric oxide; Nitric oxide synthase; Sodium nitroprusside; Synapse (Wu, K. (40) 22)

Assembly signal
Acetylcholine receptor; *Torpedo*; α-Bungarotoxin; Post-translational processing; Disulfide loop (Walcott, E.C. (41) 289)

Astrocyte
5-HT; Receptor; Glioma; Growth; Migration (Merzak, A. (41) 1)

Amyloid precursor protein; cAMP-Gene expression; Alternative splicing; Glioma cell line; Rat (Gegelashvili, G. (37) 151)

Antioxidant; Apolipoprotein; Four-vessel occlusion (May, P.C. (42) 145)

Cell culture; Gene regulation; Neuron–glia interaction; AP-1 DNA binding activity (Pennypacker, K.R. (37) 224)

Fibroblast growth factor receptors; Nucleus; Human (Stachowiak, M.K. (38) 161)

Glucocorticoid; Glutamate metabolism; GDH promoter; Neuron–glia interactions (Hardin-Pouzet, H. (37) 324)

Glycogen; Energy metabolism; Noradrenaline; Vasoactive intestinal peptide; Gene expression; cDNA (Pellegri, G. (38) 191)

Heat-shock protein; Protein synthesis; Nervous system; Neuron; Brain injury (Nishimura, R.N. (36) 227)

Hybridization, in situ; Kainic acid; mRNA; Northern blot analysis (Owada, Y. (42) 156)

Ischemia; Differential display; SPI-3 (Tsuda, M. (35) 314)

Neurotrophin; Human brain; Hippocampus; Neurodegeneration; Downs syndrome; Senile plaque (Connor, B. (42) 1)

Nitric oxide; Nitric oxide synthase; GTP cyclohydrolase I; Tetrahydrobiopterin; Cytokine; Lipopolysaccharide (D'Sa, C. (41) 105)

P75; Vitamin D; Gene regulation; C6 glioma; Spinal cord (Naveilhan, P. (41) 259)

Astrocytes
L1; Neural cell adhesion molecule; Neural regeneration; Gene therapy; Herpes simplex virus; Cerebellar granule cells (Yazaki, T. (43) 311)

Neurons; Tyrosine kinase; Protein phosphorylation (Burgaya, F. (37) 63)

Tetradecanoylphorbol acetate; In situ hybridization; Northern blot hybridization; Immunocytochemistry; Development; Neurons (Just, L. (35) 157)

Astroglia
Central nervous system; Extracellular matrix; Neurotrophic activity; Proteoglycan; Rat (Koops, A. (41) 65)

Audiogenic seizure
G-protein-coupled receptor; Orphan receptor; edg-1; Localization; Expression (Macrae, A.D. (42) 245)

c-*fos* mRNA; Hypothyroidism; Inferior colliculus; Propylthiouracil; In situ hybridization; Epilepsy (Kato, N. (38) 85)

Autocrine regulation
Endozepines; Diazepam binding inhibitor; Calcium mobilization; Glial cells (Lamacz, M. (37) 290)

Autoradiography
5-HT_{1A} receptors; 5-HT_{1A} mRNA; EEDQ; Hybridization, in situ; Receptor regulation; p-MPPI (Raghupathi, R.K. (38) 233)

5-HT_{2A} receptor; 5-HT_{2A} mRNA; N-ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Hybridization, in-situ; Receptor regulation (Raghupathi, R.K. (39) 198)

Human; Melatonin receptor; Brain; Cerebellum; Cortex; Hybridization, in situ; mRNA distribution (Mazzucchelli, C. (39) 117)

Neuropeptide Y; In situ hybridization histochemistry; Arcuate nucleus; Spontaneously hypertensive rat; Y_2 receptor; Nucleus tractus solitarius (McLean, K.J. (35) 249)

Autoregulation
Transcription factor; POU; Hypothalamus; Neuropeptide; Gene regulation; In situ hybridization (Malik, K.F. (38) 209)

Avulsion
Axotomy; Spinal cord; Ventral horn; GAP-43; Synaptic protein; Nucleus; Intron; In situ hybridization; mRNA; Gene; Rat; Chicken (Jacobsson, G. (37) 49)

Axotomy
α-CGRP; β-CGRP; Gene expression; In situ hybridization; Neuron regeneration; Motoneuron; Neurotrophic factor; Hypoglossal nucleus; Rat (Sarasa, M. (35) 269)

Avulsion; Spinal cord; Ventral horn; GAP-43; Synaptic protein; Nucleus; Intron; In situ hybridization; mRNA; Gene; Rat; Chicken (Jacobsson, G. (37) 49)

Brain; Cell culture; Histochemistry; β-Galactosidase; Mouse; Neuropeptide; Superior cervical ganglion; Transgene; Vasoactive intestinal peptide (Tsuruda, L.M. (42) 181)

Cystatin C; Microglia; Facial nucleus; Up-regulation; Differential hybridization (Miyake, T. (37) 273)

Glutamate/aspartate transporter; Facial nerve; Hybridization, in situ (Yamashita, T. (38) 294)

Programmed cell death; Apoptosis (Butterworth, N.J. (43) 1)

Aziridinium
Choline transport; Choline mustard; Cholinergic; Acetylcholine; Striatum (Rylett, R.J. (35) 354)

B

β-Amyloid precursor protein
Alzheimer's disease; Transcriptional regulation; Heat shock element; Stress response (Dewji, N.N. (35) 325)

Alzheimer's disease; cGMP; Tumor necrosis factor; NF-κB; I-κBα/MAD3; Calcium; Free radical; Antisense (Barger, S.W. (40) 116)

β_1-Subunit
Voltage-gated sodium channel; Mouse; *Quivering*; Neuromuscular disease; Chromosome 7 (Grosson, C.L.S. (42) 222)

B-43
Serine proteinase inhibitor; Thrombin; Bovine brain; Cloning (Nakaya, N. (42) 293)

Baboon
Haloperidol and metabolites; Neurotoxicity; Tardive dyskinesia; Single photon emission computed tomography; [^{123}I]Iodobenzamide; Dopamine receptor binding; 4-(4-Chlorophenyl)-[4-(fluorophenyl)-4-oxobutyl]-1,2,3,6-tetrahydropyridine (Van der Schyf, C.J. (43) 251)

Baculovirus
Trichoplusia ni insect cells; NMDA receptor; Overexpression; Histidine tag; *N*-glycosylation; Protein purification; 5,7-[3-^{3}H]Dichlorokynurenate binding (Sydow, S. (41) 228)

Bag cell peptide
Aplysia; G-protein; Receptor; Adenylyl cyclase; Cyclic adenosine monophosphate (Berry, R.W. (38) 176)

Barbiturate
mRNA; Caudate putamen; In situ hybridization; Anesthesia; Sedative; Pentobarbital; Chloral hydrate (Quiñones-Jenab, V. (35) 297)

Basal forebrain
Nerve growth factor; Neurotrophic factor; Retrograde transport; Neurodegeneration; Dot blots; ELISA (Fahnestock, M. (42) 175)

Basal ganglia
5-HT$_4$ receptor; Splice variant; [^{125}I]SB 207710; Pre-synaptic receptor (Vilaró, M.T. (43) 356)

Basement membrane
Alzheimer's disease; Amyloid β-protein; Cerebral amyloid angiopathy; Cerebral microvessels; Cerebral meninges; Choroid plexus (Kalaria, R.N. (35) 58)

Basic fibroblast growth factor
Cerebral ischemia; Cerebral infarction; Rat; Northern blot; In situ hybridization; Immunohistochemistry (Speliotes, E.K. (39) 31)

Basic helix-loop-helix
Transcription factor; Neuronal differentiation; In situ hybridization; Gene expression; Cerebellum (Haire, M.F. (36) 174)

bax
Interleukin-1β converting enzyme; *bcl-2*; *bcl-x*; DNA fragmentation; Stroke (Honkaniemi, J. (42) 79)

Bax
Apoptosis; Radiation; Fetal rat brain; Messenger RNA; p53; Fos; JunB (Borovitskaya, A.E. (35) 19)

Bcl-2; A1; Neurodegeneration; Two hybrid system; Structural analysis (Kurschner, C. (37) 249)

Bcl-2; c-Myc; Fos; Jun; Apoptosis; Cell death; Ionizing radiation; Development; Nervous system (Ferrer, I. (38) 91)

bcl-2
Interleukin-1β converting enzyme; *bax*; *bcl-x*; DNA fragmentation; Stroke (Honkaniemi, J. (42) 79)

Bcl-2
Apoptosis; Glutamate; Cortical neuron; Herpes simplex virus (Jia, W.W.-G. (42) 350)

Bax; A1; Neurodegeneration; Two hybrid system; Structural analysis (Kurschner, C. (37) 249)

Bax; c-Myc; Fos; Jun; Apoptosis; Cell death; Ionizing radiation; Development; Nervous system (Ferrer, I. (38) 91)

bcl-2 gene family
Programed cell death; Focal ischemia; DNA fragmentation; Immediate-early gene; Stroke (Gillardon, F. (40) 254)

bcl-x
Interleukin-1β converting enzyme; *bcl-2*; *bax*; DNA fragmentation; Stroke (Honkaniemi, J. (42) 79)

BDNF
Focal ischemia; NGFI-A; NGFI-B; Immediate early gene; Hybridization, in situ (Lin, T.-N. (43) 149)

Neurotrophic factor; Neurotrophin; Neuropeptide Y; Neuropeptide (Takei, N. (37) 283)

Bed nucleus of the stria terminalis
Androgen receptor; Estrogen receptor; Estrogen; Dihydrotestosterone; Medial preoptic area; mRNA (Handa, R.J. (39) 57)

Maternal behavior; Postpartum; Steroid receptor; Medial preoptic nucleus; Ventromedial nucleus; Medial amygdala (Wagner, C.K. (42) 328)

Behavioral sensitization
Amphetamine; Hippocampus; Glucocorticoids; HPA axis; Corticosterone; Glucocorticoid receptor (Shilling, P.D. (38) 156)

Benzodiazepine
GABA$_A$ receptor; Messenger RNA; Neuronal cell line; Gamma-2 subunit; Voltage clamp (Reynolds, J.N. (35) 11)

Benzodiazepine receptor
GABA$_A$ receptor γ_2 subunit; GABA$_A$ receptor; Antibody; mRNA; Rat brain; Aging (Gutiérrez, A. (35) 91)

Bergmann glia
Tyrosine phosphatase; Chick; Cerebellum; Development (Fang, K.S. (37) 1)

Beta-galactosidase
Transfection; Neuronal culture; Hippocampus; Liposomes (Kaech, S. (35) 344)

Binding
Regional distribution; GABA$_B$ receptor; GTP analogue; Gpp(NH)p; Rat; Brain; G-protein; Ontogeny (Mathivet, P. (42) 18)

Bipolar disorder
G-Protein; Lithium; Gene expression (Young, L.T. (42) 45)

Blood-brain barrier
Blood-nerve barrier; Permeability coefficient-surface area product; Residual brain/endoneurium plasma volume; Neurotrophic factor; Ciliary neurotrophic factor; Nerve growth factor; Neurotrophin-3; Brain-derived neurotrophic factor (Poduslo, J.F. (36) 280)

Blood-nerve barrier
Blood-brain barrier; Permeability coefficient-surface area product; Residual brain/endoneurium plasma volume; Neurotrophic factor; Ciliary neurotrophic factor; Nerve growth factor; Neurotrophin-3; Brain-derived neurotrophic factor (Poduslo, J.F. (36) 280)

Blood pressure
Exercise; Post-exercise hypotension; Enkephalin; Hypertension; Rostral ventrolateral medulla (Boone Jr., J.B. (42) 31)

Bovine brain
Serine proteinase inhibitor; Thrombin; B-43; Cloning (Nakaya, N. (42) 293)

Brain
5-Hydroxytryptamine; Methysergide; Somatostatin receptors; Adenylate cyclase; Rat (Muñoz-Acedo, G. (37) 259)

Adrenalectomy; Lipopolysaccharide; IL-1; Tumor necrosis factor; IL-6; IL-1ra; Spleen; Pituitary; Mice (Goujon, E. (36) 53)

Axotomy; Cell culture; Histochemistry; β-Galactosidase; Mouse; Neuropeptide; Superior cervical ganglion; Transgene; Vasoactive intestinal peptide (Tsuruda, L.M. (42) 181)

Cyclooxygenase; Prostaglandin endoperoxide synthase; C-*fos*; Cerebral ischemia; mRNA (Holtz, M.L. (35) 339)

Development; Glutamate receptor; Gene expression; RNase protection assay; Epilepsy; Schizophrenia (Sircar, R. (40) 214)

Extracellular matrix; Central nervous system; Reeler mouse; Polymerase chain reaction; Gene (D'Arcangelo, G. (39) 234)

Fibroblast growth factor; Fibroblast growth factor receptor; Development; Polymerase chain reaction; Hybridization, in situ (Ozawa, K. (41) 279)

Human; Melatonin receptor; Cerebellum; Cortex; Hybridization, in situ; Autoradiography; mRNA distribution (Mazzucchelli, C. (39) 117)

Hypothyroidism; SNF4/CAT3; AMP-activated protein kinase; Hybridization, in situ; Mouse; Goat (Piosik, P.A. (40) 240)

LIM domain; Development; Rat; In situ hybridization; Localization (Furuyama, T. (36) 152)

Preprodynorphin; Cocaine; Preproenkephalin; Kappa opioid receptor; Rat (Spangler, R. (38) 71)

Regional distribution; $GABA_B$ receptor; GTP analogue; Gpp(NH)p; Rat; Binding; G-protein; Ontogeny (Mathivet, P. (42) 18)

SERCA; Endoplasmic reticulum; Single-cell PCR; Immunocytochemistry; Purkinje neuron (Baba-Aïssa, F. (41) 169)

Transcription factor; cAMP response element; Aging; Rolipram; Phosphodiesterase inhibitor (Asanuma, M. (41) 210)

cAMP-specific phosphodiesterase; Distribution; Hybridization, in situ (Iwahashi, Y. (38) 14)

Brain binding proteins
$5\text{-}HT_{2C}$ receptor mRNA; 3′ Untranslated region; RNA binding motif; Post-transcriptional regulation (Kao, H.-T. (43) 174)

Brain damage
Forebrain ischemia; Neurotrophins; Hippocampus; Rat (Kokaia, Z. (38) 139)

Brain-derived neurotrophic factor
1-Methyl-4-phenylpyridinium; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Reverse transcriptase–polymerase chain reaction; Substantia nigra; Ventral tegmental area; Striatum; Nucleus accumbens; Gene expression (Hung, H.-C. (41) 16)

Blood-brain barrier; Blood-nerve barrier; Permeability coefficient-surface area product; Residual brain/endoneurium plasma volume; Neurotrophic factor; Ciliary neurotrophic factor; Nerve growth factor; Neurotrophin-3 (Poduslo, J.F. (36) 280)

Nerve growth factor; Neurotrophin 3; Neurotrophin 4/5; *trk*A; *trk*B; *trk*C; $p75^{LNGFR}$; RT-PCR (Suter-Crazzolara, C. (43) 351)

Synaptic plasticity; Neurotrophin; trkB; Postsynaptic; Receptor protein tyrosine kinase (Wu, K. (43) 286)

TrkB; Glutamate; Quisqualate; Entorhinal cortex; Hippocampus (Falkenberg, T. (42) 317)

TrkB; Hippocampus; Neurotrophin; Synaptic transmission; Neurotrophin-4 (Levine, E.S. (38) 300)

Brain development
Angiotensin II; Receptor subtypes; $[^{125}I]Sar^1$-ANG II binding (Jöhren, O. (37) 192)

DM20; Proteolipid protein; Myelin; Gene expression; Trout (Tang, S. (41) 134)

Down syndrome; S100β (Marks, A. (36) 343)

Sox; Hight Mobility Group box; Zebrafish; Embryogenesis (Vriz, S. (40) 221)

Brain injury
Growth factor; Choroid plexus; Microglia; GFAP; Hybridization, in-situ (Knuckey, N.W. (40) 1)

Heat-shock protein; Protein synthesis; Nervous system; Astrocyte; Neuron (Nishimura, R.N. (36) 227)

Heme oxygenase; Reactive astrocyte; Heat shock protein; Stress protein; Gliosis (Dwyer, B.E. (38) 251)

Leucine-rich repeat protein; NLRR-3; Cerebral cortex; Hybridization, in-situ (Ishii, N. (40) 148)

Brain metabolism
Insulin-regulatable glucose transporter; GLUT4; Glucose utilization; Neuron; Immunocytochemistry; Reverse transcription-polymerase chain reaction (RT-PCR) (Leloup, C. (38) 45)

Brain somatostatin
Veratridine; Veratridine-induced SS gene expression; SS mRNA; Long-term depolarization; Short-term depolarization (Tolón, R.M. (35) 103)

Brainstem
c-*fos*; Immediate-early genes; REM sleep; Acetylcholine (Shiromani, P.J. (38) 77)

Creatine kinase; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Spinal cord; Olfactory bulb; Striatum; Thalamus; Gender; Sex; Interleukin; Cytokine (Ilyin, S.E. (41) 50)

Brain synaptosomes
Ethanol; Glucocorticoids; Steroids; Calcium influx; Dihydropyridine binding; Calcium channels (Sze, P.Y. (37) 231)

Brn-3
Transcriptional control; POU family transcription factor; Synapsin; SNAP-25 (Morris, P.J. (43) 279)

α-Bungarotoxin
Acetylcholine receptor; *Torpedo*; Assembly signal; Post-translational processing; Disulfide loop (Walcott, E.C. (41) 289)

Nicotinic receptor subunit; Nicotinic receptor; Genetics; Seizure; Restriction fragment length polymorphism (Stitzel, J.A. (43) 30)

Nicotinic receptor; Neuroanatomy; Genetics; Hybridization, in-situ (Marks, M.J. (39) 207)

C

C57
CRH-R1 mRNA; DBA; In-situ hybridization; Restraint stress; Cortical areas (Giardino, L. (40) 310)

***trk*C**
Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin 3; Neurotrophin 4/5; *trk*A; *trk*B; $p75^{LNGFR}$; RT-PCR (Suter-Crazzolara, C. (43) 351)

CA1
Calbindin-D_{28K}; Cerebellum; Purkinje cell; Hippocampus; Transgenic mice (Pavlou, O. (36) 268)

Long-term potentiation; Antisense DNA; Hippocampus; Synaptic plasticity; Protein phosphatase; Calcineurin; FK506 (Ikegami, S. (41) 183)

Calbindin-D_{28K}
Cerebellum; Purkinje cell; Hippocampus; CA1; Transgenic mice (Pavlou, O. (36) 268)

Calbindin-D_{28k}
Mouse; Midbrain; Dopaminergic neuron; MPTP; Western blot; Immunocytochemistry; Neurodegeneration (Ng, M.C. (36) 329)

Calbindin-D28k
mRNA; Oxytocin; Vasopressin; Dehydration; Parturition; Lactation; Rat (Voisin, D.L. (42) 279)

Calcineurin
Long-term potentiation; Antisense DNA; Hippocampus; CA1; Synaptic plasticity; Protein phosphatase; FK506 (Ikegami, S. (41) 183)

Calcitonin gene-related peptide
Neuropeptide Y; Neurons; Microglia; Proteinase; Degradation; Plasminogen activator; uPA; tPA (Ludwig, R. (37) 181)

Calcium
Alzheimer's disease; β-Amyloid precursor protein; cGMP; Tumor necrosis factor; NF-κB;

I-κBα/MAD3; Free radical; Antisense (Barger, S.W. (40) 116)

Ionomycin; Gene expression; AP1; CREB (Nankova, B. (35) 164)

Neurotoxicity; Glutamate; Cell death; Herpes; Parvalbumin; Neuron; Cell culture (Hartley, D.M. (40) 285)

SH-SY5Y cell; Store depletion; Calcium entry; Muscarinic receptor; SKF 96365; Fura-2 (Grudt, T.J. (36) 93)

Calcium-binding protein
Dopamine; Kainic acid; *N*-Methyl-D-aspartic acid; (±)-α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Cytotoxicity; Phosphorylated cAMP/Ca^{2+} response element-binding protein (Isaacs, K.R. (36) 114)

Olfactory tissue; S100; Teleost; Nucleotide sequence; cDNA library (Porta, A.R. (41) 81)

Calcium/calmodulin-dependent phosphorylation
L-Arginine; *N*-L-Arginine-methyl ester; Major postsynaptic density protein; Nitric oxide; Nitric oxide synthase; Sodium nitroprusside; Synapse (Wu, K. (40) 22)

Calcium channels
Ethanol; Glucocorticoids; Steroids; Calcium influx; Dihydropyridine binding; Brain synaptosomes (Sze, P.Y. (37) 231)

Calcium channel subunits
Retina; Glia; Potassium homeostasis; Conotoxin; Potassium currents (Puro, D.G. (37) 41)

Calcium entry
SH-SY5Y cell; Calcium; Store depletion; Muscarinic receptor; SKF 96365; Fura-2 (Grudt, T.J. (36) 93)

Calcium influx
Ethanol; Glucocorticoids; Steroids; Dihydropyridine binding; Calcium channels; Brain synaptosomes (Sze, P.Y. (37) 231)

Calcium mobilization
Endozepines; Diazepam binding inhibitor; Glial cells; Autocrine regulation (Lamacz, M. (37) 290)

Calmodulin
GAP-43; Two-hybrid system; Growth cone; Development; Phosphoprotein; Protein kinase C (Chao, S. (40) 195)

Calmodulin kinase type II
Wobbler; Mouse; Motor neuron disease; Spinal muscular atrophy (Bronstein, J.M. (43) 330)

Calphostin C
Protein kinase C; Isoforms; Cell proliferation; H7; Neuroblastoma (Cabedo, H. (37) 125)

αCAMKII
Long-term potentiation; Gene expression; c-*fos*; zif/268; Hippocampus (Roberts, L.A. (42) 123)

CaM kinase II
Postsynaptic density; Actin; Cytoskeleton; Neurotransmitter receptor; Synaptic junction (Adam, G. (43) 246)

Synaptic vesicles; Synapsin I; Neurotransmitter release (Benfenati, F. (40) 297)

cAMP
Hypoxic-ischemia; Programmed cell death; Neuroprotection; Jun (Walton, M. (43) 21)

Long-term memory; CREB; *Aplysia* (Dash, P.K. (39) 43)

Nerve growth factor; AP-1; 12-*O*-Tetradecanoyl phorbol-13-acetate; Intracellular Ca^{2+}; mRNA stability (Colangelo, A.M. (35) 1)

Neuroblastoma; ACTH; Nerve regeneration; Melanocortin; G_s-coupled receptor (Adan, R.A.H. (36) 37)

cAMP-Gene expression
Amyloid precursor protein; Alternative splicing; Astrocyte; Glioma cell line; Rat (Gegelashvili, G. (37) 151)

cAMP regulation
DBH promoter; Transient transfection; Luciferase activity; Silencer (Afar, R. (36) 79)

cAMP response element
Transcription factor; Aging; Brain; Rolipram; Phosphodiesterase inhibitor (Asanuma, M. (41) 210)

Tyrosine hydroxylase; Prostaglandin E_2; SK-N-BE(2)C cell; AP1; Site-directed mutagenesis (Kim, J.-S. (39) 177)

cAMP-specific phosphodiesterase
Brain; Distribution; Hybridization, in situ (Iwahashi, Y. (38) 14)

Capsaicin
Resiniferatoxin; Vanilloid receptor; Cultured neurons; Dorsal root ganglia; Rat; Receptor subclasses (Acs, G. (35) 173)

Carbachol
c-*fos*; Muscarinic receptors; Oligodendrocytes; PKC inhibitors; Phorbol esters (Cohen, R.I. (43) 193)

β-Carboline
Chemical kindling; FG 7142; Kainic acid; γ-Aminobutyric acid; *N*-Methyl-D-aspartate; Xenopus oocytes (Lewin, E. (37) 304)

Carbon monoxide
Hypothalamus; Oxytocin; Neurohypophysis; Hemin; ZnPP9 (Kostoglou-Athanassiou, I. (42) 301)

Cardio-respiratory system
Nitric oxide synthase; Nitric oxide; Chronic hypoxia; Nodose ganglion; Cerebellum (Prabhakar, N.R. (43) 341)

Catecholaminergic neuron
TH promoter; Transgenic mouse; Developmental gene expression (Son, J.H. (36) 300)

Cationic lipid
Gene transfer; Nerve growth factor; Neurofilament; Septo-hippocampal system; Cell culture (Yang, K. (43) 13)

Caudal striatum
Stimulus-transcription coupling; Cortico-striatal projection; Topographic organization; Lateral amygdala; Mouse (Arnauld, E. (41) 27)

Caudate putamen
Transplantation; Parkinson's disease; Dopamine transporter; Substantia nigra (Fujita, M. (39) 127)

mRNA; In situ hybridization; Anesthesia; Barbiturate; Sedative; Pentobarbital; Chloral hydrate (Quiñones-Jenab, V. (35) 297)

Cocaine; Chronic infusion; Gene expression; Prodynorphin mRNA; Rat; Hypothalamus (Romualdi, P. (40) 153)

Neuroleptic; Dopamine; Peptide regulation; Hybridization, in situ (Zahm, D.S. (42) 71)

CCK_B receptors
Receptor cDNA transfection; DA D_2 receptors; Receptor binding; Receptor-receptor interaction (Dasgupta, S. (36) 292)

cdc10/SWI6 motif
V-1 protein; Gene expression; Cellular localization; Murine central nervous system; *pcd* mutant mice (Fujigasaki, H. (40) 203)

Cell culture
Astrocyte; Gene regulation; Neuron–glia interaction; AP-1 DNA binding activity (Pennypacker, K.R. (37) 224)

Axotomy; Brain; Histochemistry; β-Galactosidase; Mouse; Neuropeptide; Superior cervical ganglion; Transgene; Vasoactive intestinal peptide (Tsuruda, L.M. (42) 181)

Calcium; Neurotoxicity; Glutamate; Cell death; Herpes; Parvalbumin; Neuron (Hartley, D.M. (40) 285)

Gene transfer; Cationic lipid; Nerve growth factor; Neurofilament; Septo-hippocampal system (Yang, K. (43) 13)

Ifenprodil; *N*-methyl-D-aspartate; Neuron; Electrophysiology; Receptor subtype; Receptor expression (Priestley, T. (40) 271)

Tyrosine hydroxylase; Infection; X-gal cytochemistry; Cell type-specific expression (Oh, Y.J. (35) 227)

Cell death
Bcl-2; Bax; c-Myc; Fos; Jun; Apoptosis; Ionizing radiation; Development; Nervous system (Ferrer, I. (38) 91)

Calcium; Neurotoxicity; Glutamate; Herpes; Parvalbumin; Neuron; Cell culture (Hartley, D.M. (40) 285)

Spermidine/spermine N^1-acetyltransferase; Putrescine; Spermidine; Natural polyamines; Cerebral ischemia; In situ hybridization; Rat (Zoli, M. (38) 122)

Cell lines P19 and PC12
RNA binding protein; Neuronal differentiation; Neurospecific expression; Alternative splicing; mRNA; cDNA cloning (Steller, U. (35) 285)

Cell proliferation
Protein kinase C; Isoforms; Calphostin C; H7; Neuroblastoma (Cabedo, H. (37) 125)

Cell type-specific expression
Cell culture; Tyrosine hydroxylase; Infection; X-gal cytochemistry (Oh, Y.J. (35) 227)

Cellular localization
V-1 protein; cdc10/SWI6 motif; Gene expression; Murine central nervous system; *pcd* mutant mice (Fujigasaki, H. (40) 203)

Central nervous system
Acidic domain; Glial cell; Krüppel-type zinc finger protein; Rat; Transcription factor (Pott, U. (38) 109)

Antisense RNA; Heat shock gene; Mouse (Murashov, A.K. (37) 85)

Astroglia; Extracellular matrix; Neurotrophic activity; Proteoglycan; Rat (Koops, A. (41) 65)

Brain; Extracellular matrix; Reeler mouse; Polymerase chain reaction; Gene (D'Arcangelo, G. (39) 234)

Cerebellar granule cell
N-Methyl-D-aspartate receptor; Glutamate-binding protein; Ethanol; NR1; NR2A; Antisense oligonucleotide (Hoffman, P.L. (39) 167)

L1; Neural cell adhesion molecule; Neural regeneration; Gene therapy; Herpes simplex virus; Astrocytes (Yazaki, T. (43) 311)

Cerebellum
α-Tubulin; Gene isotype; Granule cell; Neuritogenesis; Neuronal culture; In situ hybridization (Przyborski, S.A. (36) 179)

Basic helix-loop-helix; Transcription factor; Neuronal differentiation; In situ hybridization; Gene expression (Haire, M.F. (36) 174)

Calbindin-D_{28K}; Purkinje cell; Hippocampus; CA1; Transgenic mice (Pavlou, O. (36) 268)

Creatine kinase; Nervous system; Hippocampus; Hypothalamus; Cortex; Brain stem; Spinal cord; Olfactory bulb; Striatum; Thalamus; Gender; Sex; Interleukin; Cytokine (Ilyin, S.E. (41) 50)

GABA; Transporter; Electron microscopy; Immunocytochemistry; Presynapse; Glial process (Itouji, A. (37) 309)

GAP-43; Alzheimer's disease; Neurofibrillary tangle; mRNA levels; Diffuse plaque; Neuritic plaque (Cheetham, J.E. (36) 145)

Human; Melatonin receptor; Brain; Cortex; Hybridization, in situ; Autoradiography; mRNA distribution (Mazzucchelli, C. (39) 117)

Interleukin; Cytokine; Growth factor; Neuroimmunology; Immune system; Nervous system; Hippocampus; Hypothalamus; Cortex; Midbrain; Feeding; Food intake; mRNA; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

MEF2; Mouse; Granule cell; Differentiation; Cloning (Lin, X. (42) 307)

Na^+-*myo*-inositol cotransporter; Osmolyte; Hypernatremia; Hybridization, in-situ (Minami, Y. (40) 64)

Nitric oxide synthase; Nitric oxide; Chronic hypoxia; Nodose ganglion; Cardio-respiratory system (Prabhakar, N.R. (43) 341)

Parathyroid hormone/parathyroid hormone-related peptide receptor; Human brain; SK-N-MC cell line; Nervous system (Eggenberger, M. (36) 127)

Tyrosine phosphatase; Chick; Bergmann glia; Development (Fang, K.S. (37) 1)

Voltage-operated potassium channel; Voltage-operated sodium channel; Immunogold; Preembedding; Silver enhancement; Gold toning; Electron microscopy; Rat (Laube, G. (42) 51)

Cerebral amyloid angiopathy
Alzheimer's disease; Amyloid β-protein; Basement membrane; Cerebral microvessels; Cerebral meninges; Choroid plexus (Kalaria, R.N. (35) 58)

Cerebral cortex
Cigarette smoke; cGMP; Nitric oxide; Free radical; Synaptosome; Nerve terminal; Rat (Kamisaki, Y. (42) 39)

GAP-43; Hybridization, in situ; Human CNS development; Process outgrowth; Hippocampus (Kanazir, S. (38) 145)

Leucine-rich repeat protein; NLRR-3; Brain injury; Hybridization, in-situ (Ishii, N. (40) 148)

Neuronal nitric oxide synthase; NADPH-diaphorase histochemistry; Hybridisation, in-situ; Alzheimer's disease; Excitotoxicity; Hippocampus (Norris, P.J. (41) 36)

Protein tyrosine phosphatase; Neuron; Oligodendrocyte; PRL-1; Transient forebrain ischemia (Takano, S. (40) 105)

Cerebral infarction
Basic fibroblast growth factor; Cerebral ischemia; Rat; Northern blot; In situ hybridization; Immunohistochemistry (Speliotes, E.K. (39) 31)

Cerebral ischemia
Basic fibroblast growth factor; Cerebral infarction; Rat; Northern blot; In situ hybridization; Immunohistochemistry (Speliotes, E.K. (39) 31)

Cyclooxygenase; Prostaglandin endoperoxide synthase; C-*fos*; Brain; mRNA (Holtz, M.L. (35) 339)

Heme oxygenase; Glia; Heat shock protein; Antioxidant; Stroke; Penumbra; Spreading depression; Translation (Nimura, T. (37) 201)

Spermidine/spermine N^1-acetyltransferase; Putrescine; Spermidine; Natural polyamines; Cell death; In situ hybridization; Rat (Zoli, M. (38) 122)

Cerebral meninges
Alzheimer's disease; Amyloid β-protein; Basement membrane; Cerebral amyloid angiopathy; Cerebral microvessels; Choroid plexus (Kalaria, R.N. (35) 58)

Cerebral microvessels
Alzheimer's disease; Amyloid β-protein; Basement membrane; Cerebral amyloid angiopathy; Cerebral meninges; Choroid plexus (Kalaria, R.N. (35) 58)

Cerebrospinal fluid
Interleukin; Cytokine; Growth factor; Neuroimmunology; Immune system; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Midbrain; Feeding; Food intake; mRNA; Intracerebroventricular (Ilyin, S.E. (43) 209)

Cerebrum
Hypothyroid; Tubulin; Actin; mRNA; Transcription (Poddar, R. (35) 111)

C-*fos*
Suprachiasmatic nucleus; Circadian rhythm; Photosensitivity; Fos-lir; Light stimulus; Testicular activity (Boissin-Agasse, L. (37) 21)

Cyclooxygenase; Prostaglandin endoperoxide synthase; Cerebral ischemia; Brain; mRNA (Holtz, M.L. (35) 339)

Dopamine; Serotonin; Immunohistochemistry; 5-HT_{1A} receptors; 5-HT_2 receptors; 5-HT_3 receptors; D_1 receptors; Agonists; Antagonists; Striatum; 6-OHDA; Rat (Rouillard, C. (37) 105)

c-*fos*
Immediate early genes; c-*jun*; JunB; Traumatic brain injury (Raghupathi, R. (37) 134)

Carbachol; Muscarinic receptors; Oligodendrocytes; PKC inhibitors; Phorbol esters (Cohen, R.I. (43) 193)

Electroacupuncture; Stimulation frequency; c-*jun*; Preproenkephalin; Preprodynorphin; Proopiomelanocortin (Guo, H.-F. (43) 157)

Endotoxin; Choroid plexus; Prostaglandin; Interleukin-1β; Hypothalamus; Corticotrophin releasing hormone; Oxytocin; Vasopressin; Sheep (Vellucci, S.V. (43) 41)

Growth hormone-releasing peptide; Growth hormone; Growth hormone-releasing factor; Somatostatin; In situ hybridization (Kamegai, J. (39) 153)

Immediate early gene; *jun D*; $pp60^{c-src+}$; Hybridisation, in-situ; Striatal lesion; Striatal graft; Development (Haque, N.S.K. (41) 90)

Immediate-early genes; REM sleep; Brainstem; Acetylcholine (Shiromani, P.J. (38) 77)

Long-term potentiation; Gene expression; zif/268; αCAMKII; Hippocampus (Roberts, L.A. (42) 123)

C6 glioma
P75; Vitamin D; Gene regulation; Astrocyte; Spinal cord (Naveilhan, P. (41) 259)

α-CGRP
β-CGRP; Gene expression; In situ hybridization; Axotomy; Neuron regeneration; Motoneuron; Neurotrophic factor; Hypoglossal nucleus; Rat (Sarasa, M. (35) 269)

β-CGRP
α-CGRP; Gene expression; In situ hybridization; Axotomy; Neuron regeneration; Motoneuron; Neurotrophic factor; Hypoglossal nucleus; Rat (Sarasa, M. (35) 269)

3CH134
Western blot; Immunocytochemistry; MKP-1; Epilepsy; Phosphatase (Gass, P. (41) 74)

Chemical kindling
FG 7142; β-Carboline; Kainic acid; γ-Aminobutyric acid; *N*-Methyl-D-aspartate; Xenopus oocytes (Lewin, E. (37) 304)

Chemoreceptor pathway
Tyrosine hydroxylase mRNA; Tyrosine hydroxylase protein; Hypoxia; Nucleus tractus solitarius; A2C2 neuron; Long-term hypoxia (Dumas, S. (40) 188)

C3H / HeN mice
Suprachiasmatic nucleus; Retina; Light; c-*fos* mRNA (Masana, M.I. (42) 193)

Chick
Tyrosine kinase receptor; *c-ret* Proto-oncogene; Motoneuron; Trophic factor; Deafferentation; Denervation; Hybridization, in situ (Nakamura, M. (39) 1)

Tyrosine phosphatase; Cerebellum; Bergmann glia; Development (Fang, K.S. (37) 1)

Chick brain
AMPA-Glutamate receptor; Ion channel; cDNA cloning; RNA editing; Alternative splicing (Paperna, T. (36) 101)

Chicken
Axotomy; Avulsion; Spinal cord; Ventral horn; GAP-43; Synaptic protein; Nucleus; Intron; In situ hybridization; mRNA; Gene; Rat (Jacobsson, G. (37) 49)

Chloral hydrate
mRNA; Caudate putamen; In situ hybridization; Anesthesia; Barbiturate; Sedative; Pentobarbital (Quiñones-Jenab, V. (35) 297)

4-(4-Chlorophenyl)-[4-(fluorophenyl)-4-oxobutyl]-1,2,3,6-tetrahydropyridine
Haloperidol and metabolites; Neurotoxicity; Tardive dyskinesia; Single photon emission computed tomography; [^{123}I]Iodobenzamide; Dopamine receptor binding; Baboon (Van der Schyf, C.J. (43) 251)

Cholecystokinin
Kindling; In situ hybridization; Seizure; Electroconvulsive seizure (Zhang, L.-X. (35) 278)

Lithium; Electroconvulsive therapy; Manic-depressive illness; mRNA expression; Hybridization, in situ; Rat brain (Zachrisson, O. (43) 347)

Rat; Head trauma; In situ hybridization; Insulin-like growth factor; Insulin-like growth factor binding protein; Gene regulation; Gene expression (Sandberg Nordqvist, A.-C. (38) 285)

Choline acetyltransferase
Human; cDNA; Translation initiation site; Expression, in vitro; Enzyme activity (Oda, Y. (38) 135)

NMDA receptor; Neostriatum; Interneuron; Somatostatin; GABAergic (Standaert, D.G. (42) 89)

Spinal muscular atrophy of childhood; Motoneuron development; mRNA stabilization; Neurofilament overexpression; Neuromuscular diseases; RT-PCR; Transcriptional regulation (Pernas-Alonso, R. (38) 267)

Choline mustard
Choline transport; Aziridinium; Cholinergic; Acetylcholine; Striatum (Rylett, R.J. (35) 354)

Cholinergic
Choline transport; Choline mustard; Aziridinium; Acetylcholine; Striatum (Rylett, R.J. (35) 354)

Cholinergic neuron
Insulin receptor-related receptor; Rat brain; TrkA; Hybridization, in situ; Immunohistochemistry (Tsuji, N. (41) 250)

Hydridization histochemistry, in situ; Acetylcholine; Vesicular transporter; Non-radiolabeled riboprobes; Rat central nervous system (Roghani, A. (43) 65)

Choline transport
Choline mustard; Aziridinium; Cholinergic; Acetylcholine; Striatum (Rylett, R.J. (35) 354)

Chondroitin sulfate proteoglycan
Aggrecan; Versican; Posttranslational modification; Extracellular matrix; Developmental regulation; Sulfation (Li, H. (36) 309)

Receptor tyrosine phosphatase; Trk receptor; In-situ hybridization; Hippocampus; Sprouting; Lesion; Glial scarring (Snyder, S.E. (40) 79)

Choroid plexus
Alzheimer's disease; Amyloid β-protein; Basement membrane; Cerebral amyloid angiopathy; Cerebral microvessels; Cerebral meninges (Kalaria, R.N. (35) 58)

Endotoxin; Prostaglandin; Interleukin-1β; c-*fos*; Hypothalamus; Corticotrophin releasing hormone; Oxytocin; Vasopressin; Sheep (Vellucci, S.V. (43) 41)

Growth factor; Brain injury; Microglia; GFAP; Hybridization, in-situ (Knuckey, N.W. (40) 1)

CHP126 cell
Histone deacetylase; Trichostatin; Trapoxin; Sympathetic neuron (Chireux, M. (39) 68)

Chromaffin cell
Fibroblast growth factor; Fibroblast growth factor receptor; Adrenal gland; RNase protection assay (Meisinger, C. (36) 70)

Chromogranin
Secretoneurin; Synthesis regulation; Second messenger; Signal transduction (Wolkersdorfer, M. (38) 260)

Chromosomal localization
Glycine receptor; Human; Ligand-gated ion channel receptor; Molecular cloning; *Spastic* mouse (Handford, C.A. (35) 211)

NMDA receptor channel; ε3 subunit; Gene structure (Nagasawa, M. (36) 1)

Chromosome 7
Voltage-gated sodium channel; β_1-Subunit; Mouse; *Quivering*; Neuromuscular disease (Grosson, C.L.S. (42) 222)

Chronic
Hybridization, in situ; RNA; $GABA_A$ receptor; Triazolam; Limbic system (Ramsey-Williams, V.A. (43) 132)

Chronic ethanol
NMDA receptor antagonist; mRNA levels; Up-regulation (Hu, X.-J. (36) 211)

Chronic hypoxia
Nitric oxide synthase; Nitric oxide; Nodose ganglion; Cerebellum; Cardio-respiratory system (Prabhakar, N.R. (43) 341)

Chronic infusion
Cocaine; Gene expression; Prodynorphin mRNA; Rat; Hypothalamus; Caudate-putamen (Romualdi, P. (40) 153)

Chronic neurosteroid treatment
$GABA_A$ receptor subunit; Down-regulation of subunit mRNA (Yu, R. (41) 163)

Cigarette smoke
cGMP; Nitric oxide; Free radical; Synaptosome; Nerve terminal; Cerebral cortex; Rat (Kamisaki, Y. (42) 39)

Ciliary neurotrophic factor
Blood-brain barrier; Blood-nerve barrier; Permeability coefficient-surface area product; Residual brain/endoneurium plasma volume; Neurotrophic factor; Nerve growth factor; Neurotrophin-3; Brain-derived neurotrophic factor (Poduslo, J.F. (36) 280)

Circadian
Retina; Photoreceptor; Rhythmic expression; *Xenopus*; Differential display (Green, C.B. (37) 157)

Circadian rhythm
AP-1; Immediate early gene; Optic nerve (Bennett, M.R. (42) 140)

Suprachiasmatic nucleus; Photosensitivity; C-*fos*; Fos-lir; Light stimulus; Testicular activity (Boissin-Agasse, L. (37) 21)

Suprachiasmatic nucleus; Supraoptic nucleus; Rat; In situ hybridization; Glutamate transporter; EAAC1; Glutamate uptake (Cagampang, F.R.A. (35) 190)

Tryptophan hydroxylase; Melatonin; Pineal; Molecular cloning (Florez, J.C. (42) 25)

c-*jun*
Immediate early genes; c-*fos*; JunB; Traumatic brain injury (Raghupathi, R. (37) 134)

Electroacupuncture; Stimulation frequency; c-*fos*; Preproenkephalin; Preprodynorphin; Proopiomelanocortin (Guo, H.-F. (43) 157)

Clinical application
Human; Motor neuron; Lou Gehrig's disease; Amyotrophic lateral sclerosis; Trophic factor;

Type-I IGF receptor; Type-II IGF receptor; Neurodegeneration (Doré, S. (41) 128)

Cloning
MEF2; Mouse; Cerebellum; Granule cell; Differentiation (Lin, X. (42) 307)

Serine proteinase inhibitor; Thrombin; B-43; Bovine brain (Nakaya, N. (42) 293)

Cloning, in situ
NMDA receptors; NR2C; Distribution; Human (Lin, Y.J. (43) 57)

Clusterin
Hypoxia ischemia; Selective neuronal death; Programmed cell death; Necrosis (Walton, M. (39) 137)

CNS
Tachykinin NK1 receptor; Dorsal root ganglion; Gene expression; Reverse transcription-polymerase chain reaction; Mouse; Messenger ribonucleic acid (Andoh, T. (35) 329)

Cocaine
Alcohol; Stress; Immediate-early gene; Rat (Torres, G. (43) 225)

Chronic infusion; Gene expression; Prodynorphin mRNA; Rat; Hypothalamus; Caudate-putamen (Romualdi, P. (40) 153)

Neurotransmitter transporter; Antidepressant; Ionic dependences; Raphe nuclei; Lipofection (Chang, A.S. (43) 185)

Preprodynorphin; Preproenkephalin; Kappa opioid receptor; Rat; Brain (Spangler, R. (38) 71)

Cochlea
Acetylcholine; Efferent innervation; Superior olivary complex; Guinea pig; Rat; Hybridization, in-situ; Reverse transcriptase–polymerase chain reaction (Safieddine, S. (40) 127)

Co-localization
Preoptic region; Dynorphin; Enkephalin; Double in situ hybridization (Simerly, R.B. (40) 275)

Competitive RT-PCR
FGF-2; Cytokine; Growth factor; Hormone; Tumor cell-line; Glia (Suter-Crazzolara, C. (41) 175)

Conditioned taste aversion
Amino acid-imbalanced diet; Amygdala; Feeding; Fos protein (Wang, Y. (40) 35)

Conotoxin
Calcium channel subunits; Retina; Glia; Potassium homeostasis; Potassium currents (Puro, D.G. (37) 41)

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RC3/Neurogranin; Hypothyroidism; Hybridization, in situ; Goat (Piosik, P.A. (42) 227)

Cortex
Creatine kinase; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Brain stem; Spinal cord; Olfactory bulb; Striatum; Thalamus; Gender; Sex; Interleukin; Cytokine (Ilyin, S.E. (41) 50)

Human; Melatonin receptor; Brain; Cerebellum; Hybridization, in situ; Autoradiography; mRNA distribution (Mazzucchelli, C. (39) 117)

Interleukin; Cytokine; Growth factor; Neuroimmunology; Immune system; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Midbrain; Feeding; Food intake; mRNA; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

Neurotrophin receptor; Trk-B; Western blot; Alcohol; Protein (Baek, J.-K. (40) 161)

Synapse; Postsynaptic density; Presynaptic grid; Cytoskeleton; Synapse-associated protein; cDNA cloning; Expression screening (Langnaese, K. (42) 118)

TNF-α; mRNA; Northern blot; Injury; Fluid percussion (Fan, L. (36) 287)

UbC; UbB; UbA; Rat; Hippocampus; In situ hybridization; Dot-blotting (Noga, M. (36) 261)

Cortical areas
CRH-R1 mRNA; C57; DBA; In-situ hybridization; Restraint stress (Giardino, L. (40) 310)

Cortical neuron
Apoptosis; Glutamate; Bcl-2; Herpes simplex virus (Jia, W.W.-G. (42) 350)

Corticosterone
Behavioral sensitization; Amphetamine; Hippocampus; Glucocorticoids; HPA axis; Glucocorticoid receptor (Shilling, P.D. (38) 156)

Kainate receptors; In situ hybridization; Hippocampus; Rat (Joëls, M. (37) 15)

Cortico-striatal projection
Stimulus-transcription coupling; Topographic organization; Caudal striatum; Lateral amygdala; Mouse (Arnauld, E. (41) 27)

Corticotrophin releasing hormone
Endotoxin; Choroid plexus; Prostaglandin; Interleukin-1β; *c-fos*; Hypothalamus; Oxytocin; Vasopressin; Sheep (Vellucci, S.V. (43) 41)

Receptor; Paraventricular nucleus; Stress; Hybridization, in situ (Imaki, T. (38) 166)

Corticotropin releasing hormone receptor
In situ hybridization; Stress non-responsive period; Aging (Ceccatelli, S. (37) 175)

Cos 1 cell
Opioid binding cell adhesion molecule; Phosphatidylinositol; Phospholipase C; Transient transfection (Wick, M.J. (36) 322)

Cotransport
Glutamate; In situ hybridization; Vaccinia virus; Sequence; Expression (Bjørås, M. (36) 163)

Cranial motor neuron
Testosterone propionate; Dihydrotestosterone; Steroid receptor; Sex difference (Drengler, S.M. (41) 8)

Testosterone propionate; Steroid receptor; Gender (Drengler, S.M. (35) 131)

Creatine kinase
Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Brain stem; Spinal cord; Olfactory bulb; Striatum; Thalamus; Gender; Sex; Interleukin; Cytokine (Ilyin, S.E. (41) 50)

CREB
Ionomycin; Calcium; Gene expression; AP1 (Nankova, B. (35) 164)

Long-term memory; cAMP; *Aplysia* (Dash, P.K. (39) 43)

CRE-BP1
Immediate early gene; Transcription factor; Peripheral nerve grafting; *bZip* superfamily; HB16; TREB7 (Robinson, G.A. (41) 57)

CRH-R1 mRNA
C57; DBA; In-situ hybridization; Restraint stress; Cortical areas (Giardino, L. (40) 310)

Critical period
Zif-268; Krox-24; Visual development; Plasticity; Proto-oncogene (Kaplan, I.V. (36) 12)

Cultured neurons
Capsaicin; Resiniferatoxin; Vanilloid receptor; Dorsal root ganglia; Rat; Receptor subclasses (Acs, G. (35) 173)

Cyclic adenosine monophosphate
Aplysia; G-protein; Receptor; Adenylyl cyclase; Bag cell peptide (Berry, R.W. (38) 176)

Cyclic AMP
Metabotropic glutamate receptor; Glutamate receptor, metabotropic; G protein; L-2-Amino-4-phosphonobutyrate (L-AP4); In situ hybridization (Makoff, A. (37) 239)

Neuroblastoma; Staurosporine; Synapsin I; Dopamine β-hydroxylase; Gene expression (Sasaki, K. (40) 157)

Cyclic AMP response element
Tyrosine hydroxylase; Muscarinic acetylcholine receptor; Rat pheochromocytoma cell; Gene regulation; AP1 element (Chen, Y. (40) 42)

Cyclooxygenase
Prostaglandin endoperoxide synthase; C-*fos*; Cerebral ischemia; Brain; mRNA (Holtz, M.L. (35) 339)

Cyclophilin
6-Hydroxydopamine; Dopamine; Dynorphin A(1–8); GBR-12909; Neurokinin A; Preprotachykinin; Prodynorphin; Substance P (Sivam, S.P. (35) 197)

Cystatin C
Microglia; Facial nucleus; Axotomy; Up-regulation; Differential hybridization (Miyake, T. (37) 273)

Cytokine
Creatine kinase; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Brain stem; Spinal cord; Olfactory bulb; Striatum; Thalamus; Gender; Sex; Interleukin (Ilyin, S.E. (41) 50)

FGF-2; Growth factor; Hormone; Tumor cell-line; Glia; Competitive RT-PCR (Suter-Crazzolara, C. (41) 175)

Growth factor; Nerve injury; Hypoglossal; Rat (Morita, N. (42) 263)

Interleukin; Growth factor; Neuroimmunology; Immune system; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Midbrain; Feeding; Food intake; mRNA; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

Nitric oxide; Nitric oxide synthase; GTP cyclohydrolase I; Tetrahydrobiopterin; Astrocyte; Lipopolysaccharide (D'Sa, C. (41) 105)

Serotonin; Semi-quantitative polymerase chain reaction (Pousset, F. (38) 54)

Cytoskeleton
Microtubule; Alternative splicing; MAP2; RNA transport (Kindler, S. (36) 63)

Postsynaptic density; Actin; Neurotransmitter receptor; CaM kinase II; Synaptic junction (Adam, G. (43) 246)

Synapse; Postsynaptic density; Presynaptic grid; Cortex; Synapse-associated protein; cDNA cloning; Expression screening (Langnaese, K. (42) 118)

Tyrosine phosphorylation; Laminin; Neurite outgrowth; Actin; Focal adhesion kinase; Paxillin (Leventhal, P.S. (43) 338)

Cytotoxicity
Calcium-binding protein; Dopamine; Kainic acid; *N*-Methyl-D-aspartic acid; (±)-α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Phosphorylated cAMP/Ca^{2+} response element-binding protein (Isaacs, K.R. (36) 114)

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jun D
Immediate early gene; c-*fos*; pp60^{c-src+}; Hybridisation, in-situ; Striatal lesion; Striatal graft; Development (Haque, N.S.K. (41) 90)

neuroD
Human; bHLH protein; cDNA sequence; Fetal brain; Adult cerebellum (Yokoyama, M. (42) 135)

DA D_2 receptors
Receptor cDNA transfection; CCK_B receptors; Receptor binding; Receptor-receptor interaction (Dasgupta, S. (36) 292)

DBA
CRH-R1 mRNA; C57; In-situ hybridization; Restraint stress; Cortical areas (Giardino, L. (40) 310)

DBH promoter
Transient transfection; Luciferase activity; Silencer; cAMP regulation (Afar, R. (36) 79)

Deafferentation
Tyrosine kinase receptor; Chick; *c-ret* Protooncogene; Motoneuron; Trophic factor; Denervation; Hybridization, in situ (Nakamura, M. (39) 1)

Defective vector
Herpes simplex virus; Tetracycline; Inducible promoter; Hippocampus; Hippocampal neuron (Ho, D.Y. (41) 200)

Degradation
Neuropeptide Y; Calcitonin gene-related peptide; Neurons; Microglia; Proteinase; Plasminogen activator; uPA; tPA (Ludwig, R. (37) 181)

Dehydration
Calbindin-D28k; mRNA; Oxytocin; Vasopressin; Parturition; Lactation; Rat (Voisin, D.L. (42) 279)

Denervation
Tyrosine kinase receptor; Chick; *c-ret* Protooncogene; Motoneuron; Trophic factor; Deafferentation; Hybridization, in situ (Nakamura, M. (39) 1)

Dentatorubral pallidoluysian atrophy
Trinucleotide repeat; Microsatellite; Huntington's disease (Margolis, R.L. (36) 219)

Development
Bcl-2; Bax; c-Myc; Fos; Jun; Apoptosis; Cell death; Ionizing radiation; Nervous system (Ferrer, I. (38) 91)

DNA binding; Hippocampus; Long-term potentiation; Granule cell; GAP-43; NGF (Kinney, W.R. (38) 25)

Fibroblast growth factor; Fibroblast growth factor receptor; Brain; Polymerase chain reaction; Hybridization, in situ (Ozawa, K. (41) 279)

GAP-43; Two-hybrid system; Growth cone; Phosphoprotein; Calmodulin; Protein kinase C (Chao, S. (40) 195)

Glutamate receptor; Gene expression; RNase protection assay; Brain; Epilepsy; Schizophrenia (Sircar, R. (40) 214)

Immediate early gene; c-*fos*; *jun D*; pp60^{c-src+}; Hybridisation, in-situ; Striatal lesion; Striatal graft (Haque, N.S.K. (41) 90)

Kainic acid; Synaptotagmin; Seizure; Hippocampus; Limbic system (Tocco, G. (40) 229)

LIM domain; Rat; In situ hybridization; Brain; Localization (Furuyama, T. (36) 152)

TRP; Store-operated Ca^{2+} channel; Rat brain; Hybridization, in situ (Funayama, M. (43) 259)

Tetradecanoylphorbol acetate; In situ hybridization; Northern blot hybridization; Immunocytochemistry; Neurons; Astrocytes (Just, L. (35) 157)

Tyrosine phosphatase; Chick; Cerebellum; Bergmann glia (Fang, K.S. (37) 1)

Developmental gene expression
TH promoter; Transgenic mouse; Catecholaminergic neuron (Son, J.H. (36) 300)

Developmental regulation
Chondroitin sulfate proteoglycan; Aggrecan; Versican; Posttranslational modification; Extracellular matrix; Sulfation (Li, H. (36) 309)

Dexfenfluramine
Polymerase chain reaction; Tryptophan hydroxylase mRNA; Serotonin transporter mRNA; 5,7-Dihydroxytryptamine; Dorsal raphe nucleus (Semple-Rowland, S.L. (41) 121)

Diabetes
Neuropathy; Regeneration; Neurotrophin; Growth associated protein-43; Substance P (Maeda, K. (37) 166)

Diabetic neuropathy
Substance P; Nerve growth factor; Preprotachykinin mRNA; trkA mRNA; Inflammation (Garrett, N.E. (42) 272)

Diazepam binding inhibitor
Endozepines; Calcium mobilization; Glial cells; Autocrine regulation (Lamacz, M. (37) 290)

Differential display
Ischemia; SPI-3; Astrocyte (Tsuda, M. (35) 314)

Retina; Photoreceptor; Circadian; Rhythmic expression; *Xenopus* (Green, C.B. (37) 157)

Differential hybridization
Cystatin C; Microglia; Facial nucleus; Axotomy; Up-regulation (Miyake, T. (37) 273)

Differentiation
MEF2; Mouse; Cerebellum; Granule cell; Cloning (Lin, X. (42) 307)

NOR-1; Orphan nuclear receptor; Antisense oligonucleotide; Fetal brain; Neurite extension (Ohkura, N. (35) 309)

Diffuse plaque
GAP-43; Cerebellum; Alzheimer's disease; Neurofibrillary tangle; mRNA levels; Neuritic plaque (Cheetham, J.E. (36) 145)

Dihydropyridine binding
Ethanol; Glucocorticoids; Steroids; Calcium influx; Calcium channels; Brain synaptosomes (Sze, P.Y. (37) 231)

Dihydrotestosterone
Androgen receptor; Estrogen receptor; Estrogen; Medial preoptic area; Bed nucleus of the stria terminalis; mRNA (Handa, R.J. (39) 57)

Testosterone propionate; Steroid receptor; Cranial motor neuron; Sex difference (Drengler, S.M. (41) 8)

5,7-Dihydroxytryptamine
Polymerase chain reaction; Tryptophan hydroxylase mRNA; Serotonin transporter mRNA; Dorsal raphe nucleus; Dexfenfluramine (Semple-Rowland, S.L. (41) 121)

Site specific peptide; Multiple antigenic peptide; Polymerase chain reaction; Immunocytochemistry; Fusion protein; Dorsal raphe (Zhou, F.C. (43) 267)

1,25-Dihydroxyvitamin D3 receptor
Vitamin D; Tyrosine hydroxylase; mRNA; Gene expression; Adrenal medulla (Puchacz, E. (36) 193)

Distribution
NMDA receptors; NR2C; Cloning, in situ; Human (Lin, Y.J. (43) 57)

cAMP-specific phosphodiesterase; Brain; Hybridization, in situ (Iwahashi, Y. (38) 14)

Disulfide loop
Acetylcholine receptor; *Torpedo*; Assembly sig-

nal; α-Bungarotoxin; Post-translational processing (Walcott, E.C. (41) 289)

DM20
Proteolipid protein; Myelin; Gene expression; Brain development; Trout (Tang, S. (41) 134)

cDNA
Choline acetyltransferase; Human; Translation initiation site; Expression, in vitro; Enzyme activity (Oda, Y. (38) 135)

Glutamate receptor; GluR2; Fish (Kung, S.-S. (35) 119)

Glycogen; Astrocyte; Energy metabolism; Noradrenaline; Vasoactive intestinal peptide; Gene expression (Pellegri, G. (38) 191)

Leucine-rich repeat; Mouse; Nervous system; Adhesion molecule; Receptor (Taniguchi, H. (36) 45)

DNA binding
Development; Hippocampus; Long-term potentiation; Granule cell; GAP-43; NGF (Kinney, W.R. (38) 25)

cDNA cloning
AMPA-Glutamate receptor; Ion channel; Chick brain; RNA editing; Alternative splicing (Paperna, T. (36) 101)

Inward rectifier; Potassium channel; G protein; Human cerebellum; Restriction fragment length polymorphism; Serotonin receptor (Schoots, O. (39) 23)

Pineal gland; Retina; Polymerase chain reaction; Hybridization, in situ; EGF-like repeat (Wang, X. (41) 269)

RNA binding protein; Neuronal differentiation; Neurospecific expression; Alternative splicing; Cell lines P19 and PC12; mRNA (Steller, U. (35) 285)

Synapse; Postsynaptic density; Presynaptic grid; Cortex; Cytoskeleton; Synapse-associated protein; Expression screening (Langnaese, K. (42) 118)

DNA damage
Dopamine; Tyrosinase; Parkinson's disease (Stokes, A.H. (42) 167)

DNA fragmentation
Interleukin-1β converting enzyme; *bcl-2*; *bax*; *bcl-x*; Stroke (Honkaniemi, J. (42) 79)

Programed cell death; Focal ischemia; *bcl-2* gene family; Immediate-early gene; Stroke (Gillardon, F. (40) 254)

cDNA library
Calcium-binding protein; Olfactory tissue; S100; Teleost; Nucleotide sequence (Porta, A.R. (41) 81)

cDNA sequence
Human; *neuroD*; bHLH protein; Fetal brain; Adult cerebellum (Yokoyama, M. (42) 135)

L-DOPA
Dopamine D_2 receptor; Hybridization, in situ; Monkey; MPTP; Parkinson's disease; Dyskinesia (Herrero, M.T. (42) 149)

Dopa decarboxylase
Psychosis; Psychotogenesis; 2-Phenyletylamine; Tryptamine; Schizophrenia (Buckland, P.R. (35) 69)

Dopamine
6-Hydroxydopamine; Dynorphin A(1–8); GBR-12909; Neurokinin A; Preprotachykinin; Prodynorphin; Substance P; Cyclophilin (Sivam, S.P. (35) 197)

Calcium-binding protein; Kainic acid; *N*-Methyl-D-aspartic acid; (±)-α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Cytotoxicity; Phosphorylated cAMP/Ca^{2+} response element-binding protein (Isaacs, K.R. (36) 114)

Caudate-putamen; Neuroleptic; Peptide regulation; Hybridization, in situ (Zahm, D.S. (42) 71)

Enkephalin; 6-Hydroxydopamine; Messenger RNA; Partial lesion; Substance P; Striatum; Tyrosine hydroxylase (Nisenbaum, L.K. (37) 209)

Reverse transcriptase-PCR; Tyrosine hydroxylase; Synaptic vesicle monoamine transporter; Neuronal interaction (Perrone-Capano, C. (39) 160)

Serotonin; C-*fos*; Immunohistochemistry; 5-HT_{1A} receptors; 5-HT_2 receptors; 5-HT_3 receptors; D_1 receptors; Agonists; Antagonists; Striatum; 6-OHDA; Rat (Rouillard, C. (37) 105)

Tyrosinase; DNA damage; Parkinson's disease (Stokes, A.H. (42) 167)

Dopamine β-hydroxylase
Neuroblastoma; Cyclic AMP; Staurosporine; Synapsin I; Gene expression (Sasaki, K. (40) 157)

Dopamine D_1 receptor
Dopamine D_2 receptor; Dopamine D_3 receptor; Hybridization, in situ; Limbic system; mRNA (Damask, S.P. (41) 241)

Dopamine D_2 receptor
Dopamine D_1 receptor; Dopamine D_3 receptor; Hybridization, in situ; Limbic system; mRNA (Damask, S.P. (41) 241)

Hybridization, in situ; Monkey; MPTP; Parkinson's disease; L-DOPA; Dyskinesia (Herrero, M.T. (42) 149)

Dopamine D_3 receptor
Dopamine D_1 receptor; Dopamine D_2 receptor; Hybridization, in situ; Limbic system; mRNA (Damask, S.P. (41) 241)

Dopamine membrane transporter
Weaver mutation; Tyrosine hydroxylase; Vesicular monoamine transporter; Hybridization, in situ; Parkinson's disease (Adelbrecht, C. (43) 291)

Dopamine receptor binding
Haloperidol and metabolites; Neurotoxicity; Tardive dyskinesia; Single photon emission computed tomography; [^{123}I]Iodobenzamide; Baboon; 4-(4-Chlorophenyl)-[4-(fluorophenyl)-4-oxobutyl]-1,2,3,6-tetrahydropyridine (Van der Schyf, C.J. (43) 251)

Dopaminergic neuron
Mouse; Midbrain; MPTP; Western blot; Immunocytochemistry; Neurodegeneration; Calbindin-D_{28k} (Ng, M.C. (36) 329)

Neurotensin; Substantia nigra pars compacta; Whole-cell voltage-clamp recording; Single-cell RT-PCR assay; PTX-insensitive G-protein (Wang, H.-L. (36) 29)

Dopamine transporter
Genetically epilepsy-prone rat; mRNA; Neurotransporters; Tyrosine hydroxylase; In situ; Tryptophan hydroxylase; Norepinephrine transporter; Serotonin transporter (Szot, P. (43) 233)

Synaptic vesicle amine transporter; In situ hybridization; Neuromelanin; Parkinson's disease (Harrington, K.A. (36) 157)

Transplantation; Parkinson's disease; Caudate putamen; Substantia nigra (Fujita, M. (39) 127)

Dorsal raphe
Monoamine oxidase; Locus coeruleus; Hybridization histochemistry (Luque, J.M. (36) 357)

Site specific peptide; Multiple antigenic peptide; Polymerase chain reaction; Immunocytochemistry; 5,7-Dihydroxytryptamine; Fusion protein (Zhou, F.C. (43) 267)

Dorsal raphe nucleus
Polymerase chain reaction; Tryptophan hydroxylase mRNA; Serotonin transporter mRNA; 5,7-Dihydroxytryptamine; Dexfenfluramine (Semple-Rowland, S.L. (41) 121)

Dorsal root ganglia
Capsaicin; Resiniferatoxin; Vanilloid receptor; Cultured neurons; Rat; Receptor subclasses (Acs, G. (35) 173)

Dorsal root ganglion
Hybridization, in situ; mRNA; Sodium channel; Reverse transcription polymerase chain reaction (RT-PCR) (Black, J.A. (43) 117)

Tachykinin NK1 receptor; Gene expression; Reverse transcription-polymerase chain reaction; Mouse; Messenger ribonucleic acid; CNS (Andoh, T. (35) 329)

Dorsomedial nucleus of the hypothalamus
Anterior piriform cortex; Amino acid imbalanced diet; Threonine; Feeding behavior; Infralimbic cortex (Wang, Y. (40) 27)

Dot blots
Nerve growth factor; Neurotrophic factor; Basal forebrain; Retrograde transport; Neurodegeneration; ELISA (Fahnestock, M. (42) 175)

Dot-blotting
UbC; UbB; UbA; Rat; Cortex; Hippocampus; In situ hybridization (Noga, M. (36) 261)

Double in situ hybridization
Preoptic region; Dynorphin; Enkephalin; Co-localization (Simerly, R.B. (40) 275)

Down-regulation of subunit mRNA
$GABA_A$ receptor subunit; Chronic neurosteroid treatment (Yu, R. (41) 163)

Downs syndrome
Neurotrophin; Human brain; Hippocampus; Neurodegeneration; Astrocyte; Senile plaque (Connor, B. (42) 1)

Down syndrome
Brain development; S100β (Marks, A. (36) 343)

D_1 receptors
Dopamine; Serotonin; C-*fos*; Immunohistochemistry; $5\text{-}HT_{1A}$ receptors; $5\text{-}HT_2$ receptors; $5\text{-}HT_3$ receptors; Agonists; Antagonists; Striatum; 6-OHDA; Rat (Rouillard, C. (37) 105)

D4S234
Neuron-specific expression; m234; p1A75; p19; Multigene family; Evolutionary conservation; Golgi apparatus; Nuclear localization (Carlock, L. (42) 202)

Dynorphin
Preoptic region; Enkephalin; Double in situ hybridization; Co-localization (Simerly, R.B. (40) 275)

Dynorphin A(1–8)
6-Hydroxydopamine; Dopamine; GBR-12909; Neurokinin A; Preprotachykinin; Prodynorphin; Substance P; Cyclophilin (Sivam, S.P. (35) 197)

Dyskinesia
Dopamine D_2 receptor; Hybridization, in situ; Monkey; MPTP; Parkinson's disease; L-DOPA (Herrero, M.T. (42) 149)

E

EAAC1
Suprachiasmatic nucleus; Supraoptic nucleus; Rat; Circadian rhythm; In situ hybridization; Glutamate transporter; Glutamate uptake (Cagampang, F.R.A. (35) 190)

hEAAC1
Glutamate metabolism; Northern blot analysis; Neurotransmission; Neurodegenerative disease; hGLT-1; hGluT-1 (Nakayama, T. (36) 189)

E box
Amyloid precursor protein; Promoter; USF (Bourbonnière, M. (35) 304)

edg-1
G-protein-coupled receptor; Orphan receptor; Audiogenic seizure; Localization; Expression (Macrae, A.D. (42) 245)

Edman degradation
Lymnaea inhibitory peptide; Neuromodulation; Amino acid sequencing; Mass spectrometry (Li, K.W. (37) 267)

EEDQ
$5\text{-}HT_{1A}$ receptors; $5\text{-}HT_{1A}$ mRNA; Hybridization, in situ; Autoradiography; Receptor regulation; p-MPPI (Raghupathi, R.K. (38) 233)

Efferent innervation
Acetylcholine; Cochlea; Superior olivary complex; Guinea pig; Rat; Hybridization, in-situ; Reverse transcriptase–polymerase chain reaction (Safieddine, S. (40) 127)

EGF-like repeat
Pineal gland; Retina; cDNA cloning; Polymerase chain reaction; Hybridization, in situ (Wang, X. (41) 269)

Electroacupuncture
Fos; Jun; Preproenkephalin; Preprodynorphin; Antisense oligodeoxynucleotide (Guo, H.-F. (43) 167)

Stimulation frequency; c-*fos*; c-*jun*; Preproenkephalin; Preprodynorphin; Proopiomelanocortin (Guo, H.-F. (43) 157)

Electroconvulsive seizure
Kindling; In situ hybridization; Cholecystokinin; Seizure (Zhang, L.-X. (35) 278)

Electroconvulsive stimulation
In situ hybridization; AMPA receptor; NMDA receptor; Long-term potentiation; Memory (Naylor, P. (35) 349)

Electroconvulsive therapy
Lithium; Manic-depressive illness; Cholecystokinin; mRNA expression; Hybridization, in situ; Rat brain (Zachrisson, O. (43) 347)

Electron microscopy
GABA; Transporter; Immunocytochemistry; Cerebellum; Presynapse; Glial process (Itouji, A. (37) 309)

Voltage-operated potassium channel; Voltage-operated sodium channel; Immunogold; Preembedding; Silver enhancement; Gold toning; Rat; Cerebellum (Laube, G. (42) 51)

Electrophysiology
Ifenprodil; *N*-methyl-D-aspartate; Neuron; Cell culture; Receptor subtype; Receptor expression (Priestley, T. (40) 271)

Elevated plus-maze
Fyn-deficient mouse; Tyrosine kinase; Src family; Emotionality; Open-field test; Radial-maze performance; Spatial learning (Miyakawa, T. (37) 145)

ELISA
Nerve growth factor; Neurotrophic factor; Basal forebrain; Retrograde transport; Neurodegeneration; Dot blots (Fahnestock, M. (42) 175)

Embryogenesis
Sox; Hight Mobility Group box; Zebrafish; Brain development (Vriz, S. (40) 221)

Emotionality
Fyn-deficient mouse; Tyrosine kinase; Src family; Elevated plus-maze; Open-field test; Radial-maze performance; Spatial learning (Miyakawa, T. (37) 145)

Endogenous ligand
ROR-C; Opioid receptor; Allodynia; Spinal cord (Okuda-Ashitaka, E. (43) 96)

Endoplasmic reticulum
SERCA; Single-cell PCR; Immunocytochemistry; Brain; Purkinje neuron (Baba-Aïssa, F. (41) 169)

β-Endorphin
Proopiomelanocortin; α-Melanocyte-stimulating hormone; Morphine; Hypothalamus (Wardlaw, S.L. (41) 140)

Endotoxin
Choroid plexus; Prostaglandin; Interleukin-1β; c-*fos*; Hypothalamus; Corticotrophin releasing hormone; Oxytocin; Vasopressin; Sheep (Vellucci, S.V. (43) 41)

Endozepines
Diazepam binding inhibitor; Calcium mobilization; Glial cells; Autocrine regulation (Lamacz, M. (37) 290)

Energy metabolism
Glycogen; Astrocyte; Noradrenaline; Vasoactive intestinal peptide; Gene expression; cDNA (Pellegri, G. (38) 191)

Enkephalin
Dopamine; 6-Hydroxydopamine; Messenger RNA; Partial lesion; Substance P; Striatum; Tyrosine hydroxylase (Nisenbaum, L.K. (37) 209)

Exercise; Post-exercise hypotension; Blood pressure; Hypertension; Rostral ventrolateral medulla (Boone Jr., J.B. (42) 31)

Preoptic region; Dynorphin; Double in situ hybridization; Co-localization (Simerly, R.B. (40) 275)

Transcription; Hormone; Transfection; Glucocorticoid (Crabb, D.W. (42) 103)

Enteric nervous system
$GABA_A$ receptor; Hybridization, in-situ; Reverse transcription–polymerase chain reaction; γ-Aminobutyric acid; Myenteric plexus; Rat (Zeiter, D.K. (39) 241)

Entorhinal cortex
Brain-derived neurotrophic factor; TrkB; Glutamate; Quisqualate; Hippocampus (Falkenberg, T. (42) 317)

Plasminogen activator; Urokinase; Urokinase-type plasminogen activator; uPA mRNA localization in the mouse brain; In situ hybridization; Subiculum; Parietal cortex (Masos, T. (35) 139)

Enzyme activity
Choline acetyltransferase; Human; cDNA; Translation initiation site; Expression, in vitro (Oda, Y. (38) 135)

Epilepsy
Development; Glutamate receptor; Gene expression; RNase protection assay; Brain; Schizophrenia (Sircar, R. (40) 214)

Kindling; Glutamate; Metabotropic receptor; mGluR1; mGluR5; Hippocampus (Akbar, M.T. (43) 105)

Kindling; NMDA receptor; Alternative splicing; Plasticity; Hybridization, in-situ (Kraus, J.E. (41) 97)

Sodium channel; Ion channel; Ligase detection reaction; mRNA quantitation (Lombardo, A.J. (35) 84)

Western blot; Immunocytochemistry; MKP-1; 3CH134; Phosphatase (Gass, P. (41) 74)

c-*fos* mRNA; Audiogenic seizure; Hypothyroidism; Inferior colliculus; Propylthiouracil; In situ hybridization (Kato, N. (38) 85)

Esophageal peristalsis
$GABA_A$ receptor; Nucleus ambiguus; Nucleus of the solitary tract; Pseudorabies virus; Hybridization, in-situ; Immunohistochemistry (Broussard, D.L. (40) 143)

Estrogen
Androgen receptor; Estrogen receptor; Dihydrotestosterone; Medial preoptic area; Bed nucleus of the stria terminalis; mRNA (Handa, R.J. (39) 57)

GnRH receptor; Hybridization, in situ; Pituitary (Quiñones-Jenab, V. (38) 243)

Estrogen receptor
Androgen receptor; Estrogen; Dihydrotestosterone; Medial preoptic area; Bed nucleus of the stria terminalis; mRNA (Handa, R.J. (39) 57)

ε 3 subunit
NMDA receptor channel; Gene structure; Chromosomal localization (Nagasawa, M. (36) 1)

Ethanol
N-Methyl-D-aspartate receptor; Glutamate-binding protein; Cerebellar granule cell; NR1; NR2A; Antisense oligonucleotide (Hoffman, P.L. (39) 167)

Glucocorticoids; Steroids; Calcium influx; Dihydropyridine binding; Calcium channels; Brain synaptosomes (Sze, P.Y. (37) 231)

Ethanol physical dependence
NMDA receptor subunit; Hybridization, in-situ; Immunoreactivity; Subunit specific antibody (Snell, L.D. (40) 71)

Evolutionary conservation
Neuron-specific expression; D4S234; m234; p1A75; p19; Multigene family; Golgi apparatus; Nuclear localization (Carlock, L. (42) 202)

Excitotoxicity
Neuronal nitric oxide synthase; NADPH-diaphorase histochemistry; Hybridisation, in-situ; Alzheimer's disease; Hippocampus; Cerebral cortex (Norris, P.J. (41) 36)

Exercise
Post-exercise hypotension; Enkephalin; Blood pressure; Hypertension; Rostral ventrolateral medulla (Boone Jr., J.B. (42) 31)

Expression
G-protein-coupled receptor; Orphan receptor; edg-1; Audiogenic seizure; Localization (Macrae, A.D. (42) 245)

Glutamate; Cotransport; In situ hybridization; Vaccinia virus; Sequence (Bjørås, M. (36) 163)

Expression, in vitro
Choline acetyltransferase; Human; cDNA; Translation initiation site; Enzyme activity (Oda, Y. (38) 135)

Expression screening
Synapse; Postsynaptic density; Presynaptic grid; Cortex; Cytoskeleton; Synapse-associated protein; cDNA cloning (Langnaese, K. (42) 118)

Extracellular matrix
Astroglia; Central nervous system; Neurotrophic activity; Proteoglycan; Rat (Koops, A. (41) 65)

Brain; Central nervous system; Reeler mouse; Polymerase chain reaction; Gene (D'Arcangelo, G. (39) 234)

Chondroitin sulfate proteoglycan; Aggrecan; Versican; Posttranslational modification; Developmental regulation; Sulfation (Li, H. (36) 309)

F

Facial nerve
Glutamate/aspartate transporter; Axotomy; Hybridization, in situ (Yamashita, T. (38) 294)

Facial nucleus
Cystatin C; Microglia; Axotomy; Up-regulation; Differential hybridization (Miyake, T. (37) 273)

Feeding
Amino acid imbalance; Rat; Anorexia; α_2-Noradrenergic receptor; Norepinephrine; Anterior piriform cortex; Hypothalamus (Gietzen, D.W. (35) 41)

Amino acid-imbalanced diet; Amygdala; Fos protein; Conditioned taste aversion (Wang, Y. (40) 35)

Interleukin; Cytokine; Growth factor; Neuroimmunology; Immune system; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Midbrain; Food intake; mRNA; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

Feeding behavior
Anterior piriform cortex; Amino acid imbalanced diet; Threonine; Dorsomedial nucleus of the hypothalamus; Infralimbic cortex (Wang, Y. (40) 27)

Fetal brain
Human; *neuroD*; bHLH protein; cDNA sequence; Adult cerebellum (Yokoyama, M. (42) 135)

NOR-1; Orphan nuclear receptor; Antisense oligonucleotide; Neurite extension; Differentiation (Ohkura, N. (35) 309)

Fetal neuronal cells
Sodium channel subunits; mRNA expression; α-Scorpion toxin; Polymerase chain reaction (Lara, A. (37) 116)

Fetal rat brain
Apoptosis; Radiation; Messenger RNA; p53; Fos; JunB; Bax (Borovitskaya, A.E. (35) 19)

FG 7142
Chemical kindling; β-Carboline; Kainic acid; γ-Aminobutyric acid; *N*-Methyl-D-aspartate; Xenopus oocytes (Lewin, E. (37) 304)

FGF-2
Cytokine; Growth factor; Hormone; Tumor cell-line; Glia; Competitive RT-PCR (Suter-Crazzolara, C. (41) 175)

Fibroblast growth factor
Fibroblast growth factor receptor; Adrenal gland; Chromaffin cell; RNase protection assay (Meisinger, C. (36) 70)

Fibroblast growth factor receptor; Brain; Development; Polymerase chain reaction; Hybridization, in situ (Ozawa, K. (41) 279)

Fibroblast growth factor receptor
Fibroblast growth factor; Adrenal gland; Chromaffin cell; RNase protection assay (Meisinger, C. (36) 70)

Fibroblast growth factor; Brain; Development; Polymerase chain reaction; Hybridization, in situ (Ozawa, K. (41) 279)

Fibroblast growth factor receptors
Nucleus; Astrocyte; Human (Stachowiak, M.K. (38) 161)

Fish
Glutamate receptor; GluR2; cDNA (Kung, S.-S. (35) 119)

Luteinizing hormone-releasing hormone; Nervus terminalis; Midbrain; Preoptic nucleus; Pituitary (Parhar, I.S. (41) 216)

FK506
Long-term potentiation; Antisense DNA; Hippocampus; CA1; Synaptic plasticity; Protein phosphatase; Calcineurin (Ikegami, S. (41) 183)

5′ Flanking region
Adrenalectomy; Receptor binding; Gel mobility shift; Hybridization, in situ; mRNA; Septum (Watters, J.J. (38) 276)

Fluid percussion
TNF-α; mRNA; Northern blot; Cortex; Injury (Fan, L. (36) 287)

Fluorogold
Retrograde tracing; Immunocytochemistry; Lesions; Reproduction; Opioid peptide; Sexual dimorphism (Hoffman, G.E. (36) 201)

Focal adhesion kinase
Tyrosine phosphorylation; Laminin; Neurite outgrowth; Actin; Paxillin; Cytoskeleton (Leventhal, P.S. (43) 338)

Focal cerebral ischaemia
Heat shock protein; mRNA; Protein; Time course (Wagstaff, M.J.D. (42) 236)

Focal ischemia
NGFI-A; NGFI-B; BDNF; Immediate early gene; Hybridization, in situ (Lin, T.-N. (43) 149)

Programed cell death; *bcl-2* gene family; DNA fragmentation; Immediate-early gene; Stroke (Gillardon, F. (40) 254)

Food intake
Interleukin; Cytokine; Growth factor; Neuroimmunology; Immune system; Nervous system;

Cerebellum; Hippocampus; Hypothalamus; Cortex; Midbrain; Feeding; mRNA; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

Forebrain ischemia
Immediate early genes; Immuno-histochemistry (Kumar, K. (42) 337)

Neurotrophins; Hippocampus; Brain damage; Rat (Kokaia, Z. (38) 139)

Fork head
Telencephalon; Gene expression; Winged-helix; Neuroepithelium (Li, H. (37) 96)

Fos
Apoptosis; Radiation; Fetal rat brain; Messenger RNA; p53; JunB; Bax (Borovitskaya, A.E. (35) 19)

Bcl-2; Bax; c-Myc; Jun; Apoptosis; Cell death; Ionizing radiation; Development; Nervous system (Ferrer, I. (38) 91)

Electroacupuncture; Jun; Preproenkephalin; Preprodynorphin; Antisense oligodeoxynucleotide (Guo, H.-F. (43) 167)

Gene expression; AP-1 DNA binding; Jun; Transcription factor; Hyperosmolality; Supraoptic nucleus; Paraventricular nucleus (Ying, Z. (39) 109)

Fos-lir
Suprachiasmatic nucleus; Circadian rhythm; Photosensitivity; C-*fos*; Light stimulus; Testicular activity (Boissin-Agasse, L. (37) 21)

Fos protein
Amino acid-imbalanced diet; Amygdala; Feeding; Conditioned taste aversion (Wang, Y. (40) 35)

Four-vessel occlusion
Astrocyte; Antioxidant; Apolipoprotein (May, P.C. (42) 145)

Free radical
Alzheimer's disease; β-Amyloid precursor protein; cGMP; Tumor necrosis factor; NF-κB; I-κBα/MAD3; Calcium; Antisense (Barger, S.W. (40) 116)

Cigarette smoke; cGMP; Nitric oxide; Synaptosome; Nerve terminal; Cerebral cortex; Rat (Kamisaki, Y. (42) 39)

Fura-2
SH-SY5Y cell; Calcium; Store depletion; Calcium entry; Muscarinic receptor; SKF 96365 (Grudt, T.J. (36) 93)

Fusion protein
Site specific peptide; Multiple antigenic peptide; Polymerase chain reaction; Immunocytochemistry; 5,7-Dihydroxytryptamine; Dorsal raphe (Zhou, F.C. (43) 267)

Fyn-deficient mouse
Tyrosine kinase; Src family; Emotionality; Elevated plus-maze; Open-field test; Radial-maze performance; Spatial learning (Miyakawa, T. (37) 145)

G

GABA
Transporter; Electron microscopy; Immunocytochemistry; Cerebellum; Presynapse; Glial process (Itouji, A. (37) 309)

TrkB; Hippocampus; mRNA; In situ hybridization (Zachrisson, O. (36) 169)

GABAergic
NMDA receptor; Neostriatum; Interneuron; Somatostatin; Choline acetyltransferase (Standaert, D.G. (42) 89)

$GABA_A$ receptor
Enteric nervous system; Hybridization, in-situ; Reverse transcription–polymerase chain reaction; γ-Aminobutyric acid; Myenteric plexus; Rat (Zeiter, D.K. (39) 241)

$GABA_A$ receptor γ_2 subunit; Benzodiazepine receptor; Antibody; mRNA; Rat brain; Aging (Gutiérrez, A. (35) 91)

Hybridization, in situ; RNA; Triazolam; Chronic; Limbic system (Ramsey-Williams, V.A. (43) 132)

Messenger RNA; Benzodiazepine; Neuronal cell line; Gamma-2 subunit; Voltage clamp (Reynolds, J.N. (35) 11)

Nucleus ambiguus; Nucleus of the solitary tract; Pseudorabies virus; Hybridization, in-situ; Immunohistochemistry; Esophageal peristalsis (Broussard, D.L. (40) 143)

Protein kinase G; cGMP; Phosphorylation; *Xenopus* oocyte; Site-directed mutagenesis (Leidenheimer, N.J. (42) 131)

$GABA_B$ receptor
Regional distribution; GTP analogue; Gpp(NH)p; Rat; Brain; Binding; G-protein; Ontogeny (Mathivet, P. (42) 18)

$GABA_A$ receptor γ_2 subunit
$GABA_A$ receptor; Benzodiazepine receptor; Antibody; mRNA; Rat brain; Aging (Gutiérrez, A. (35) 91)

$GABA_A$ receptor subunit
Chronic neurosteroid treatment; Down-regulation of subunit mRNA (Yu, R. (41) 163)

GAD67 mRNA
6-Hydroxydopamine lesion; NMDA receptor; MK-801; Striatum; Hybridization, in situ (Hajji, M.D. (43) 219)

β-Galactosidase
Axotomy; Brain; Cell culture; Histochemistry; Mouse; Neuropeptide; Superior cervical ganglion; Transgene; Vasoactive intestinal peptide (Tsuruda, L.M. (42) 181)

Galanin
Neuropeptide Y; Tyrosine hydroxylase; Locus coeruleus; Olfactory bulb; In situ hybridization; Messenger RNA; Trophic factors (Holmes, P.V. (36) 184)

Zucker rat; Neuropeptide Y; High fat diet; Macronutrients; Gene expression (Mercer, J.G. (43) 202)

Gamma-2 subunit
$GABA_A$ receptor; Messenger RNA; Benzodiazepine; Neuronal cell line; Voltage clamp (Reynolds, J.N. (35) 11)

GAP-43
Axotomy; Avulsion; Spinal cord; Ventral horn; Synaptic protein; Nucleus; Intron; In situ hybridization; mRNA; Gene; Rat; Chicken (Jacobsson, G. (37) 49)

Cerebellum; Alzheimer's disease; Neurofibrillary tangle; mRNA levels; Diffuse plaque; Neuritic plaque (Cheetham, J.E. (36) 145)

DNA binding; Development; Hippocampus; Long-term potentiation; Granule cell; NGF (Kinney, W.R. (38) 25)

Hybridization, in situ; Human CNS development; Process outgrowth; Cerebral cortex; Hippocampus (Kanazir, S. (38) 145)

MARCKS; Imprinting; Protein F1; mRNA; IMHV; Learning (Meberg, P.J. (35) 149)

Transgenic mouse; *lacZ* reporter gene; Hybridization, in-situ; Granule cell; Pyramidal cell; Kainic acid; Gene expression (McNamara, R.K. (40) 177)

Two-hybrid system; Growth cone; Development; Phosphoprotein; Calmodulin; Protein kinase C (Chao, S. (40) 195)

mRNA stability; RNA–protein interaction; Gene expression; Sequence conservation; 3′ untranslated region (Kohn, D.T. (36) 240)

B-50 / GAP-43
Adenoviral vector; Gene transfer, in-vivo; Olfactory system; Olfactory marker protein (Holtmaat, A.J.G.D. (41) 148)

GBR-12909
6-Hydroxydopamine; Dopamine; Dynorphin A(1–8); Neurokinin A; Preprotachykinin; Prodynorphin; Substance P; Cyclophilin (Sivam, S.P. (35) 197)

G_s-coupled receptor
Neuroblastoma; ACTH; Nerve regeneration; cAMP; Melanocortin (Adan, R.A.H. (36) 37)

GDH promoter
Astrocyte; Glucocorticoid; Glutamate metabolism; Neuron–glia interactions (Hardin-Pouzet, H. (37) 324)

Gel mobility shift
5′ Flanking region; Adrenalectomy; Receptor binding; Hybridization, in situ; mRNA; Septum (Watters, J.J. (38) 276)

Gel supershift analysis
c-Jun; Prodynorphin; PC12 cell; Transient transfection; Gene regulation (Messersmith, D.J. (40) 15)

Gender
Creatine kinase; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Brain

stem; Spinal cord; Olfactory bulb; Striatum; Thalamus; Sex; Interleukin; Cytokine (Ilyin, S.E. (41) 50)

Testosterone propionate; Steroid receptor; Cranial motor neuron (Drengler, S.M. (35) 131)

Gene
Axotomy; Avulsion; Spinal cord; Ventral horn; GAP-43; Synaptic protein; Nucleus; Intron; In situ hybridization; mRNA; Rat; Chicken (Jacobsson, G. (37) 49)

Brain; Extracellular matrix; Central nervous system; Reeler mouse; Polymerase chain reaction (D'Arcangelo, G. (39) 234)

Gene expression
α-CGRP; β-CGRP; In situ hybridization; Axotomy; Neuron regeneration; Motoneuron; Neurotrophic factor; Hypoglossal nucleus; Rat (Sarasa, M. (35) 269)

AP-1 DNA binding; Fos; Jun; Transcription factor; Hyperosmolality; Supraoptic nucleus; Paraventricular nucleus (Ying, Z. (39) 109)

Alzheimer's disease; Nerve growth factor (Neve, R.L. (39) 185)

Basic helix-loop-helix; Transcription factor; Neuronal differentiation; In situ hybridization; Cerebellum (Haire, M.F. (36) 174)

Brain-derived neurotrophic factor; 1-Methyl-4-phenylpyridinium; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Reverse transcriptase–polymerase chain reaction; Substantia nigra; Ventral tegmental area; Striatum; Nucleus accumbens (Hung, H.-C. (41) 16)

Cocaine; Chronic infusion; Prodynorphin mRNA; Rat; Hypothalamus; Caudate-putamen (Romualdi, P. (40) 153)

DM20; Proteolipid protein; Myelin; Brain development; Trout (Tang, S. (41) 134)

Development; Glutamate receptor; RNase protection assay; Brain; Epilepsy; Schizophrenia (Sircar, R. (40) 214)

G-Protein; Bipolar disorder; Lithium (Young, L.T. (42) 45)

GAP-43; mRNA stability; RNA–protein interaction; Sequence conservation; 3′ untranslated region (Kohn, D.T. (36) 240)

Glycogen; Astrocyte; Energy metabolism; Noradrenaline; Vasoactive intestinal peptide; cDNA (Pellegri, G. (38) 191)

Human brain; Serotonin; Serotonin receptors; Hybridization histochemistry, in-situ (Pasqualetti, M. (39) 223)

Ionomycin; Calcium; AP1; CREB (Nankova, B. (35) 164)

Long-term potentiation; c-*fos*; zif/268; αCAMKII; Hippocampus (Roberts, L.A. (42) 123)

Neuroblastoma; Cyclic AMP; Staurosporine; Synapsin I; Dopamine β-hydroxylase (Sasaki, K. (40) 157)

PACAP; Gonadotropin-releasing hormone; Somatostatin; Hypothalamus (Li, S. (41) 157)

Rat C6 glioma; Human astrocytic tumor; Glutamate transporter; Alanosine (Palos, T.P. (37) 297)

Rat; Head trauma; In situ hybridization; Insulin-like growth factor; Insulin-like growth factor binding protein; Cholecystokinin; Gene regulation (Sandberg Nordqvist, A.-C. (38) 285)

Spatial memory; NGFI-A; Hippocampus; Water maze; Glucocorticoid receptor (Yau, J.L.W. (42) 354)

Tachykinin NK1 receptor; Dorsal root ganglion; Reverse transcription-polymerase chain reaction; Mouse; Messenger ribonucleic acid; CNS (Andoh, T. (35) 329)

Telencephalon; Winged-helix; Neuroepithelium; Fork head (Li, H. (37) 96)

Transcription factor; Homeodomain; Zinc finger; Neuronal differentiation; Hybridization, in situ; RNase protection assay (Watanabe, M. (42) 344)

Transgenic mouse; *lacZ* reporter gene; Hybridization, in-situ; Granule cell; Pyramidal cell; Kainic acid; GAP-43 (McNamara, R.K. (40) 177)

V-1 protein; cdc10/SWI6 motif; Cellular localization; Murine central nervous system; *pcd* mutant mice (Fujigasaki, H. (40) 203)

Vitamin D; 1,25-Dihydroxyvitamin D3 receptor; Tyrosine hydroxylase; mRNA; Adrenal medulla (Puchacz, E. (36) 193)

Zucker rat; Galanin; Neuropeptide Y; High fat diet; Macronutrients (Mercer, J.G. (43) 202)

Gene isotype
α-Tubulin; Cerebellum; Granule cell; Neuritogenesis; Neuronal culture; In situ hybridization (Przyborski, S.A. (36) 179)

Gene regulation
Astrocyte; Cell culture; Neuron–glia interaction; AP-1 DNA binding activity (Pennypacker, K.R. (37) 224)

G-protein-coupled receptor; Hybridization, in situ; Receptor antibody; Rat brain; SR 48692 (Azzi, M. (42) 213)

Nerve growth factor; Promoter; Transcription; Neurotrophin; Polymerase chain reaction (Racke, M.M. (41) 192)

P75; Vitamin D; Astrocyte; C6 glioma; Spinal cord (Naveilhan, P. (41) 259)

Rat; Head trauma; In situ hybridization; Insulin-like growth factor; Insulin-like growth factor binding protein; Cholecystokinin; Gene expression (Sandberg Nordqvist, A.-C. (38) 285)

Transcription factor; Immediate-early gene; Hippocampus; Seizure; Lindane; PC12 cell; Signal-transcription coupling (Peña de Ortiz, S. (38) 1)

Transcription factor; POU; Hypothalamus; Neuropeptide; In situ hybridization; Autoregulation (Malik, K.F. (38) 209)

Tyrosine hydroxylase; Muscarinic acetylcholine receptor; Rat pheochromocytoma cell; Cyclic AMP response element; AP1 element (Chen, Y. (40) 42)

c-Jun; Prodynorphin; PC12 cell; Transient transfection; Gel supershift analysis (Messersmith, D.J. (40) 15)

Gene structure
NMDA receptor channel; ϵ3 subunit; Chromosomal localization (Nagasawa, M. (36) 1)

Gene therapy
L1; Neural cell adhesion molecule; Neural regeneration; Herpes simplex virus; Astrocytes; Cerebellar granule cells (Yazaki, T. (43) 311)

Neurons; Viral vector; HSV; LacZ; Alkaline phosphatase (New, K.C. (37) 317)

Genetically epilepsy-prone rat
mRNA; Neurotransporters; Tyrosine hydroxylase; In situ; Tryptophan hydroxylase; Norepinephrine transporter; Dopamine transporter; Serotonin transporter (Szot, P. (43) 233)

Genetics
α-Bungarotoxin; Nicotinic receptor subunit; Nicotinic receptor; Seizure; Restriction fragment length polymorphism (Stitzel, J.A. (43) 30)

α-Bungarotoxin; Nicotinic receptor; Neuroanatomy; Hybridization, in-situ (Marks, M.J. (39) 207)

Gene transfer
Cationic lipid; Nerve growth factor; Neurofilament; Septo-hippocampal system; Cell culture (Yang, K. (43) 13)

Gene transfer, in-vivo
Adenoviral vector; Olfactory system; Olfactory marker protein; B-50/GAP-43 (Holtmaat, A.J.G.D. (41) 148)

GFAP
Growth factor; Choroid plexus; Brain injury; Microglia; Hybridization, in-situ (Knuckey, N.W. (40) 1)

GHRH
Somatostatin; Hypothalamus; Non-androgenic testicular factors (Lago, F. (35) 220)

Glia
Calcium channel subunits; Retina; Potassium homeostasis; Conotoxin; Potassium currents (Puro, D.G. (37) 41)

FGF-2; Cytokine; Growth factor; Hormone; Tumor cell-line; Competitive RT-PCR (Suter-Crazzolara, C. (41) 175)

Heme oxygenase; Heat shock protein; Antioxidant; Stroke; Penumbra; Spreading depression; Cerebral ischemia; Translation (Nimura, T. (37) 201)

Glial cell
Acidic domain; Central nervous system; Krüppel-type zinc finger protein; Rat; Transcription factor (Pott, U. (38) 109)

Endozepines; Diazepam binding inhibitor; Calcium mobilization; Autocrine regulation (Lamacz, M. (37) 290)

Glial process
GABA; Transporter; Electron microscopy; Immunocytochemistry; Cerebellum; Presynapse (Itouji, A. (37) 309)

Glial scarring
Receptor tyrosine phosphatase; Chondroitin sulfate proteoglycan; Trk receptor; In-situ hybridization; Hippocampus; Sprouting; Lesion (Snyder, S.E. (40) 79)

Glioma
5-HT; Astrocyte; Receptor; Growth; Migration (Merzak, A. (41) 1)

Glioma cell line
Amyloid precursor protein; cAMP-Gene expression; Alternative splicing; Astrocyte; Rat (Gegelashvili, G. (37) 151)

Gliosis
Heme oxygenase; Brain injury; Reactive astrocyte; Heat shock protein; Stress protein (Dwyer, B.E. (38) 251)

hGLT-1
Glutamate metabolism; Northern blot analysis; Neurotransmission; Neurodegenerative disease; hGluT-1; hEAAC1 (Nakayama, T. (36) 189)

Glucocorticoid
Astrocyte; Glutamate metabolism; GDH promoter; Neuron–glia interactions (Hardin-Pouzet, H. (37) 324)

Transcription; Enkephalin; Hormone; Transfection (Crabb, D.W. (42) 103)

Glucocorticoid receptor
Behavioral sensitization; Amphetamine; Hippocampus; Glucocorticoids; HPA axis; Corticosterone (Shilling, P.D. (38) 156)

Neural retina; Glutamine synthetase; Neuronal cell death (Gorovits, R. (43) 321)

Spatial memory; NGFI-A; Hippocampus; Water maze; Gene expression (Yau, J.L.W. (42) 354)

Glucocorticoids
Behavioral sensitization; Amphetamine; Hippocampus; HPA axis; Corticosterone; Glucocorticoid receptor (Shilling, P.D. (38) 156)

Ethanol; Steroids; Calcium influx; Dihydropyridine binding; Calcium channels; Brain synaptosomes (Sze, P.Y. (37) 231)

Glucose utilization
Insulin-regulatable glucose transporter; GLUT4; Brain metabolism; Neuron; Immunocytochemistry; Reverse transcription-polymerase chain reaction (RT-PCR) (Leloup, C. (38) 45)

GluR2
Glutamate receptor; cDNA; Fish (Kung, S.-S. (35) 119)

mGluR1
Epilepsy; Kindling; Glutamate; Metabotropic receptor; mGluR5; Hippocampus (Akbar, M.T. (43) 105)

mGluR5
Epilepsy; Kindling; Glutamate; Metabotropic receptor; mGluR1; Hippocampus (Akbar, M.T. (43) 105)

GLUT4
Insulin-regulatable glucose transporter; Glucose utilization; Brain metabolism; Neuron; Immunocytochemistry; Reverse transcription-polymerase chain reaction (RT-PCR) (Leloup, C. (38) 45)

hGluT-1
Glutamate metabolism; Northern blot analysis; Neurotransmission; Neurodegenerative disease; hGLT-1; hEAAC1 (Nakayama, T. (36) 189)

Glutamate
Apoptosis; Cortical neuron; Bcl-2; Herpes simplex virus (Jia, W.W.-G. (42) 350)

Brain-derived neurotrophic factor; TrkB; Quisqualate; Entorhinal cortex; Hippocampus (Falkenberg, T. (42) 317)

Calcium; Neurotoxicity; Cell death; Herpes; Parvalbumin; Neuron; Cell culture (Hartley, D.M. (40) 285)

Cotransport; In situ hybridization; Vaccinia virus; Sequence; Expression (Bjørås, M. (36) 163)

Epilepsy; Kindling; Metabotropic receptor; mGluR1; mGluR5; Hippocampus (Akbar, M.T. (43) 105)

Immediate-early gene; Transcription factor; Acetylcholine; Long-term potentiation; Memory (Dragunow, M. (36) 349)

Metabotropic; Receptor; G protein; Hybridization, in situ (Makoff, A. (40) 55)

Nitric oxide synthase; Apoptosis; NMDA; mRNA; Granule cell (Tascedda, F. (40) 171)

Glutamate / aspartate transporter
Facial nerve; Axotomy; Hybridization, in situ (Yamashita, T. (38) 294)

Glutamate-binding protein
N-Methyl-D-aspartate receptor; Ethanol; Cerebellar granule cell; NR1; NR2A; Antisense oligonucleotide (Hoffman, P.L. (39) 167)

Glutamate decarboxylase
Putamen; Monkey; Parkinson's disease; MPTP; Hybridization histochemistry, in-situ (Soghomonian, J.-J. (39) 237)

Glutamate metabolism
Astrocyte; Glucocorticoid; GDH promoter; Neuron–glia interactions (Hardin-Pouzet, H. (37) 324)

Northern blot analysis; Neurotransmission; Neurodegenerative disease; hGLT-1; hGluT-1; hEAAC1 (Nakayama, T. (36) 189)

Glutamate receptor
N-methyl-D-aspartate; NMDAR1; Splicing; Oocyte; Voltage-clamp (Koltchine, V.V. (39) 99)

Development; Gene expression; RNase protection assay; Brain; Epilepsy; Schizophrenia (Sircar, R. (40) 214)

GluR2; cDNA; Fish (Kung, S.-S. (35) 119)

Glutamate receptor, metabotropic
Metabotropic glutamate receptor; G protein; L-2-Amino-4-phosphonobutyrate (L-AP4); Cyclic AMP; In situ hybridization (Makoff, A. (37) 239)

Glutamate transporter
Rat C6 glioma; Human astrocytic tumor; Alanosine; Gene expression (Palos, T.P. (37) 297)

Suprachiasmatic nucleus; Supraoptic nucleus; Rat; Circadian rhythm; In situ hybridization; EAAC1; Glutamate uptake (Cagampang, F.R.A. (35) 190)

Glutamate uptake
Suprachiasmatic nucleus; Supraoptic nucleus; Rat; Circadian rhythm; In situ hybridization; Glutamate transporter; EAAC1 (Cagampang, F.R.A. (35) 190)

Glutamine synthetase
Neural retina; Glucocorticoid receptor; Neuronal cell death (Gorovits, R. (43) 321)

Glycine
Glycine transporter; Retina; mRNA expression; Ischemia; NMDA receptor (Goebel, D.J. (40) 139)

Glycine receptor
Human; Ligand-gated ion channel receptor; Molecular cloning; Chromosomal localization; *Spastic* mouse (Handford, C.A. (35) 211)

Glycine transporter
Glycine; Retina; mRNA expression; Ischemia; NMDA receptor (Goebel, D.J. (40) 139)

Glycogen
Astrocyte; Energy metabolism; Noradrenaline; Vasoactive intestinal peptide; Gene expression; cDNA (Pellegri, G. (38) 191)

cGMP
Alzheimer's disease; β-Amyloid precursor protein; Tumor necrosis factor; NF-κB; I-κBα/MAD3; Calcium; Free radical; Antisense (Barger, S.W. (40) 116)

Cigarette smoke; Nitric oxide; Free radical; Synaptosome; Nerve terminal; Cerebral cortex; Rat (Kamisaki, Y. (42) 39)

$GABA_A$ receptor; Protein kinase G; Phosphorylation; *Xenopus* oocyte; Site-directed mutagenesis (Leidenheimer, N.J. (42) 131)

GnRH
GT1 cell; RNA processing; Mouse; RNase protection assay; Phorbol ester (Yeo, T.T.S. (42) 255)

GnRH receptor
Estrogen; Hybridization, in situ; Pituitary (Quiñones-Jenab, V. (38) 243)

Goat
Hypothyroidism; SNF4/CAT3; AMP-activated protein kinase; Hybridization, in situ; Brain; Mouse (Piosik, P.A. (40) 240)

RC3/Neurogranin; Hypothyroidism; Corpus striatum; Hybridization, in situ (Piosik, P.A. (42) 227)

Gold toning
Voltage-operated potassium channel; Voltage-operated sodium channel; Immunogold; Preembedding; Silver enhancement; Electron microscopy; Rat; Cerebellum (Laube, G. (42) 51)

Golgi apparatus
Neuron-specific expression; D4S234; m234; p1A75; p19; Multigene family; Evolutionary conservation; Nuclear localization (Carlock, L. (42) 202)

Gonadal regulation
Somatostatin receptor; Anterior pituitary; Rat; Hybridization, in-situ (Señarís, R.M. (38) 171)

Gonadotropin-releasing hormone
PACAP; Somatostatin; Gene expression; Hypothalamus (Li, S. (41) 157)

Gpp(NH)p
Regional distribution; $GABA_B$ receptor; GTP analogue; Rat; Brain; Binding; G-protein; Ontogeny (Mathivet, P. (42) 18)

G-protein
Inward rectifier; Potassium channel; cDNA cloning; Human cerebellum; Restriction fragment length polymorphism; Serotonin receptor (Schoots, O. (39) 23)

Metabotropic glutamate receptor; Glutamate receptor, metabotropic; L-2-Amino-4-phosphonobutyrate (L-AP4); Cyclic AMP; In situ hybridization (Makoff, A. (37) 239)

Metabotropic; Glutamate; Receptor; Hybridization, in situ (Makoff, A. (40) 55)

Aplysia; Receptor; Adenylyl cyclase; Cyclic adenosine monophosphate; Bag cell peptide (Berry, R.W. (38) 176)

Histamine; Somatostatin receptor; Adenylyl cyclase; Hippocampus (Puebla, L. (35) 77)

Metabotropic glutamate receptor; Hybridization, in-situ; Hippocampus; Human polymorphism (Makoff, A. (40) 165)

Regional distribution; $GABA_B$ receptor; GTP analogue; Gpp(NH)p; Rat; Brain; Binding; Ontogeny (Mathivet, P. (42) 18)

G-protein-coupled receptor
Hybridization, in situ; Receptor antibody; Gene regulation; Rat brain; SR 48692 (Azzi, M. (42) 213)

Orphan receptor; edg-1; Audiogenic seizure; Localization; Expression (Macrae, A.D. (42) 245)

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α-Tubulin; Gene isotype; Cerebellum; Neuritogenesis; Neuronal culture; In situ hybridization (Przyborski, S.A. (36) 179)

DNA binding; Development; Hippocampus; Long-term potentiation; GAP-43; NGF (Kinney, W.R. (38) 25)

Glutamate; Nitric oxide synthase; Apoptosis; NMDA; mRNA (Tascedda, F. (40) 171)

MEF2; Mouse; Cerebellum; Differentiation; Cloning (Lin, X. (42) 307)

Transgenic mouse; *lacZ* reporter gene; Hybridization, in-situ; Pyramidal cell; Kainic acid; Gene expression; GAP-43 (McNamara, R.K. (40) 177)

Growth
5-HT; Astrocyte; Receptor; Glioma; Migration (Merzak, A. (41) 1)

Growth associated protein-43
Diabetes; Neuropathy; Regeneration; Neurotrophin; Substance P (Maeda, K. (37) 166)

Growth cone
GAP-43; Two-hybrid system; Development; Phosphoprotein; Calmodulin; Protein kinase C (Chao, S. (40) 195)

Growth factor
Choroid plexus; Brain injury; Microglia; GFAP; Hybridization, in-situ (Knuckey, N.W. (40) 1)

Cytokine; Nerve injury; Hypoglossal; Rat (Morita, N. (42) 263)

FGF-2; Cytokine; Hormone; Tumor cell-line; Glia; Competitive RT-PCR (Suter-Crazzolara, C. (41) 175)

Interleukin; Cytokine; Neuroimmunology; Immune system; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Midbrain; Feeding; Food intake; mRNA; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

Growth hormone
c-*fos*; Growth hormone-releasing peptide; Growth hormone-releasing factor; Somatostatin; In situ hybridization (Kamegai, J. (39) 153)

Growth hormone-releasing factor
c-*fos*; Growth hormone-releasing peptide; Growth hormone; Somatostatin; In situ hybridization (Kamegai, J. (39) 153)

Growth hormone-releasing peptide
c-*fos*; Growth hormone; Growth hormone-releasing factor; Somatostatin; In situ hybridization (Kamegai, J. (39) 153)

GT1 cell
RNA processing; GnRH; Mouse; RNase protection assay; Phorbol ester (Yeo, T.T.S. (42) 255)

GTP analogue
Regional distribution; $GABA_B$ receptor; Gpp(NH)p; Rat; Brain; Binding; G-protein; Ontogeny (Mathivet, P. (42) 18)

GTP cyclohydrolase I
Nitric oxide; Nitric oxide synthase; Tetrahydrobiopterin; Astrocyte; Cytokine; Lipopolysaccharide (D'Sa, C. (41) 105)

Guinea pig
Acetylcholine; Efferent innervation; Cochlea; Superior olivary complex; Rat; Hybridization, in-situ; Reverse transcriptase–polymerase chain reaction (Safieddine, S. (40) 127)

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H7
Protein kinase C; Isoforms; Cell proliferation; Calphostin C; Neuroblastoma (Cabedo, H. (37) 125)

Haloperidol and metabolites
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5,7-[3-^{3}H]Dichlorokynurenate binding
Baculovirus; *Trichoplusia ni* insect cells; NMDA receptor; Overexpression; Histidine tag; *N*-glycosylation; Protein purification (Sydow, S. (41) 228)

Head trauma
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Heat shock element
Alzheimer's disease; β-Amyloid precursor protein; Transcriptional regulation; Stress response (Dewji, N.N. (35) 325)

Heat shock gene
Antisense RNA; Central nervous system; Mouse (Murashov, A.K. (37) 85)

Heat shock protein
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Heme oxygenase; Brain injury; Reactive astrocyte; Stress protein; Gliosis (Dwyer, B.E. (38) 251)

Heme oxygenase; Glia; Antioxidant; Stroke; Penumbra; Spreading depression; Cerebral ischemia; Translation (Nimura, T. (37) 201)

Nerve growth factor; Programmed cell death; Thermal stress; Trigeminal ganglion; Sensory neuron; Protein synthesis (Wyatt, S. (39) 52)

Protein synthesis; Nervous system; Astrocyte; Neuron; Brain injury (Nishimura, R.N. (36) 227)

Heme oxygenase
Brain injury; Reactive astrocyte; Heat shock protein; Stress protein; Gliosis (Dwyer, B.E. (38) 251)

Glia; Heat shock protein; Antioxidant; Stroke; Penumbra; Spreading depression; Cerebral ischemia; Translation (Nimura, T. (37) 201)

Hemin
Hypothalamus; Oxytocin; Carbon monoxide; Neurohypophysis; ZnPP9 (Kostoglou-Athanassiou, I. (42) 301)

Herpes
Calcium; Neurotoxicity; Glutamate; Cell death; Parvalbumin; Neuron; Cell culture (Hartley, D.M. (40) 285)

Herpes simplex virus
Apoptosis; Glutamate; Cortical neuron; Bcl-2 (Jia, W.W.-G. (42) 350)

Defective vector; Tetracycline; Inducible promoter; Hippocampus; Hippocampal neuron (Ho, D.Y. (41) 200)

L1; Neural cell adhesion molecule; Neural regeneration; Gene therapy; Astrocytes; Cerebellar granule cells (Yazaki, T. (43) 311)

High fat diet
Zucker rat; Galanin; Neuropeptide Y; Macronutrients; Gene expression (Mercer, J.G. (43) 202)

Hight Mobility Group box
Sox; Zebrafish; Brain development; Embryogenesis (Vriz, S. (40) 221)

Hippocampal neuron
Herpes simplex virus; Defective vector; Tetracycline; Inducible promoter; Hippocampus (Ho, D.Y. (41) 200)

Hippocampus
Amygdala; Spinal cord (Morales, M. (36) 251)

Behavioral sensitization; Amphetamine; Glucocorticoids; HPA axis; Corticosterone; Glucocorticoid receptor (Shilling, P.D. (38) 156)

Brain-derived neurotrophic factor; TrkB; Glutamate; Quisqualate; Entorhinal cortex (Falkenberg, T. (42) 317)

Calbindin-D_{28K}; Cerebellum; Purkinje cell; CA1; Transgenic mice (Pavlou, O. (36) 268)

Corticosterone; Kainate receptors; In situ hybridization; Rat (Joëls, M. (37) 15)

Creatine kinase; Nervous system; Cerebellum; Hypothalamus; Cortex; Brain stem; Spinal cord; Olfactory bulb; Striatum; Thalamus; Gender; Sex; Interleukin; Cytokine (Ilyin, S.E. (41) 50)

DNA binding; Development; Long-term potentiation; Granule cell; GAP-43; NGF (Kinney, W.R. (38) 25)

Epilepsy; Kindling; Glutamate; Metabotropic receptor; mGluR1; mGluR5 (Akbar, M.T. (43) 105)

Forebrain ischemia; Neurotrophins; Brain damage; Rat (Kokaia, Z. (38) 139)

GABA; TrkB; mRNA; In situ hybridization (Zachrisson, O. (36) 169)

GAP-43; Hybridization, in situ; Human CNS development; Process outgrowth; Cerebral cortex (Kanazir, S. (38) 145)

Gene regulation; Transcription factor; Immediate-early gene; Seizure; Lindane; PC12 cell; Signal-transcription coupling (Peña de Ortiz, S. (38) 1)

Herpes simplex virus; Defective vector; Tetracycline; Inducible promoter; Hippocampal neuron (Ho, D.Y. (41) 200)

Histamine; Somatostatin receptor; Adenylyl cyclase; G-protein (Puebla, L. (35) 77)

In situ hybridization; Immediate early gene; Neuronal death; Signal transduction (Kamme, F. (43) 51)

Interleukin; Cytokine; Growth factor; Neuroimmunology; Immune system; Nervous system; Cerebellum; Hypothalamus; Cortex; Midbrain; Feeding; Food intake; mRNA; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

Kainic acid; Synaptotagmin; Development; Seizure; Limbic system (Tocco, G. (40) 229)

Long-term potentiation; Antisense DNA; CA1; Synaptic plasticity; Protein phosphatase; Calcineurin; FK506 (Ikegami, S. (41) 183)

Long-term potentiation; Gene expression; c-*fos*; zif/268; αCAMKII (Roberts, L.A. (42) 123)

Metabotropic glutamate receptor; G-protein; Hybridization, in-situ; Human polymorphism (Makoff, A. (40) 165)

NF-κB; IκB; Long-term potentiation; Protein kinase C; Rat; Transcription factors; mRNA (Meberg, P.J. (38) 179)

Neuronal nitric oxide synthase; NADPH-diaphorase histochemistry; Hybridisation, in-situ; Alzheimer's disease; Excitotoxicity; Cerebral cortex (Norris, P.J. (41) 36)

Neurotrophin; Human brain; Neurodegeneration; Astrocyte; Downs syndrome; Senile plaque (Connor, B. (42) 1)

Receptor tyrosine phosphatase; Chondroitin sulfate proteoglycan; Trk receptor; In-situ hybridization; Sprouting; Lesion; Glial scarring (Snyder, S.E. (40) 79)

Spatial memory; NGFI-A; Water maze; Gene expression; Glucocorticoid receptor (Yau, J.L.W. (42) 354)

Transfection; Neuronal culture; Liposomes; Beta-galactosidase (Kaech, S. (35) 344)

TrkB; Neurotrophin; Synaptic transmission; Brain-derived neurotrophic factor; Neurotrophin-4 (Levine, E.S. (38) 300)

UbC; UbB; UbA; Rat; Cortex; In situ hybridization; Dot-blotting (Noga, M. (36) 261)

Histamine
Somatostatin receptor; Adenylyl cyclase; G-protein; Hippocampus (Puebla, L. (35) 77)

Histidine tag
Baculovirus; *Trichoplusia ni* insect cells; NMDA receptor; Overexpression; *N*-glycosylation; Protein purification; 5,7-[3-^{3}H]Dichlorokynurenate binding (Sydow, S. (41) 228)

Histochemistry
Axotomy; Brain; Cell culture; β-Galactosidase; Mouse; Neuropeptide; Superior cervical ganglion; Transgene; Vasoactive intestinal peptide (Tsuruda, L.M. (42) 181)

Histone deacetylase
Trichostatin; Trapoxin; Sympathetic neuron; CHP126 cell (Chireux, M. (39) 68)

bHLH protein
Human; *neuroD*; cDNA sequence; Fetal brain; Adult cerebellum (Yokoyama, M. (42) 135)

Homeodomain
Transcription factor; Zinc finger; Neuronal differentiation; Gene expression; Hybridization, in situ; RNase protection assay (Watanabe, M. (42) 344)

Hormone
FGF-2; Cytokine; Growth factor; Tumor cell-line; Glia; Competitive RT-PCR (Suter-Crazzolara, C. (41) 175)

Transcription; Enkephalin; Transfection; Glucocorticoid (Crabb, D.W. (42) 103)

HPA axis
Behavioral sensitization; Amphetamine; Hippocampus; Glucocorticoids; Corticosterone; Glucocorticoid receptor (Shilling, P.D. (38) 156)

HSV
Neurons; Gene therapy; Viral vector; LacZ; Alkaline phosphatase (New, K.C. (37) 317)

5-HT
Astrocyte; Receptor; Glioma; Growth; Migration (Merzak, A. (41) 1)

5-HT_{1A} mRNA
5-HT_{1A} receptors; EEDQ; Hybridization, in situ; Autoradiography; Receptor regulation; p-MPPI (Raghupathi, R.K. (38) 233)

5-HT_{2A} mRNA
5-HT_{2A} receptor; N-ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Hybridization, in-situ; Autoradiography; Receptor regulation (Raghupathi, R.K. (39) 198)

5-HT_{2A} receptor
5-HT_{2A} mRNA; N-ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Hybridization, in-situ; Autoradiography; Receptor regulation (Raghupathi, R.K. (39) 198)

5-HT_4 receptor
Splice variant; [^{125}I]SB 207710; Basal ganglia; Pre-synaptic receptor (Vilaró, M.T. (43) 356)

5-HT_{2C} receptor mRNA
3′ Untranslated region; Brain binding proteins; RNA binding motif; Post-transcriptional regulation (Kao, H.-T. (43) 174)

5-HT_{1A} receptors
5-HT_{1A} mRNA; EEDQ; Hybridization, in situ; Autoradiography; Receptor regulation; p-MPPI (Raghupathi, R.K. (38) 233)

Dopamine; Serotonin; C-*fos*; Immunohistochemistry; 5-HT_2 receptors; 5-HT_3 receptors; D_1 receptors; Agonists; Antagonists; Striatum; 6-OHDA; Rat (Rouillard, C. (37) 105)

5-HT_2 receptors
Dopamine; Serotonin; C-*fos*; Immunohistochemistry; 5-HT_{1A} receptors; 5-HT_3 receptors; D_1 receptors; Agonists; Antagonists; Striatum; 6-OHDA; Rat (Rouillard, C. (37) 105)

5-HT_3 receptors
Dopamine; Serotonin; C-*fos*; Immunohistochemistry; 5-HT_{1A} receptors; 5-HT_2 receptors; D_1 receptors; Agonists; Antagonists; Striatum; 6-OHDA; Rat (Rouillard, C. (37) 105)

Human
neuroD; bHLH protein; cDNA sequence; Fetal brain; Adult cerebellum (Yokoyama, M. (42) 135)

Choline acetyltransferase; cDNA; Translation initiation site; Expression, in vitro; Enzyme activity (Oda, Y. (38) 135)

Fibroblast growth factor receptors; Nucleus; Astrocyte (Stachowiak, M.K. (38) 161)

Glycine receptor; Ligand-gated ion channel receptor; Molecular cloning; Chromosomal localization; *Spastic* mouse (Handford, C.A. (35) 211)

Melatonin receptor; Brain; Cerebellum; Cortex; Hybridization, in situ; Autoradiography; mRNA distribution (Mazzucchelli, C. (39) 117)

Motor neuron; Lou Gehrig's disease; Amyotrophic lateral sclerosis; Trophic factor; Type-I IGF receptor; Type-II IGF receptor; Neurodegeneration; Clinical application (Doré, S. (41) 128)

NMDA receptors; NR2C; Distribution; Cloning, in situ (Lin, Y.J. (43) 57)

Human astrocytic tumor
Rat C6 glioma; Glutamate transporter; Alanosine; Gene expression (Palos, T.P. (37) 297)

Human brain
Neurotrophin; Hippocampus; Neurodegeneration; Astrocyte; Downs syndrome; Senile plaque (Connor, B. (42) 1)

Parathyroid hormone/parathyroid hormone-related peptide receptor; Cerebellum; SK-N-MC cell line; Nervous system (Eggenberger, M. (36) 127)

Serotonin; Serotonin receptors; Gene expression; Hybridization histochemistry, in-situ (Pasqualetti, M. (39) 223)

Human cerebellum
Inward rectifier; Potassium channel; G protein; cDNA cloning; Restriction fragment length polymorphism; Serotonin receptor (Schoots, O. (39) 23)

Human CNS development
GAP-43; Hybridization, in situ; Process outgrowth; Cerebral cortex; Hippocampus (Kanazir, S. (38) 145)

Human CNS precursor cell
Transfection; Lipofectamine; Large-T antigen (Cattaneo, E. (42) 161)

Human polymorphism
Metabotropic glutamate receptor; G-protein; Hybridization, in-situ; Hippocampus (Makoff, A. (40) 165)

Huntington's disease
Trinucleotide repeat; Dentatorubral pallidoluysian atrophy; Microsatellite (Margolis, R.L. (36) 219)

Hybridisation, in-situ
Immediate early gene; c-*fos*; *jun D*; $pp60^{c-src+}$; Striatal lesion; Striatal graft; Development (Haque, N.S.K. (41) 90)

Neuronal nitric oxide synthase; NADPH-diaphorase histochemistry; Alzheimer's disease; Excitotoxicity; Hippocampus; Cerebral cortex (Norris, P.J. (41) 36)

Hybridization histochemistry, in situ
Neurotrophic; Visceral sensory neuron; Vagus nerve; Neonatal rat; Oligonucleotide (Zhuo, H. (38) 63)

Hybridization histochemistry, in-situ
Glutamate decarboxylase; Putamen; Monkey; Parkinson's disease; MPTP (Soghomonian, J.-J. (39) 237)

Human brain; Serotonin; Serotonin receptors; Gene expression (Pasqualetti, M. (39) 223)

Hybridization histochemistry
Monoamine oxidase; Locus coeruleus; Dorsal raphe (Luque, J.M. (36) 357)

Hybridization, in situ
5′ Flanking region; Adrenalectomy; Receptor binding; Gel mobility shift; mRNA; Septum (Watters, J.J. (38) 276)

5-HT_{1A} receptors; 5-HT_{1A} mRNA; EEDQ; Autoradiography; Receptor regulation; p-MPPI (Raghupathi, R.K. (38) 233)

6-Hydroxydopamine lesion; NMDA receptor; MK-801; GAD67 mRNA; Striatum (Hajji, M.D. (43) 219)

Apolipoprotein E; Amyloid precursor protein; Ribonucleic acid (Ali, S.M. (38) 37)

Astrocyte; Kainic acid; mRNA; Northern blot analysis (Owada, Y. (42) 156)

Caudate-putamen; Neuroleptic; Dopamine; Peptide regulation (Zahm, D.S. (42) 71)

Corticotropin-releasing factor; Receptor; Paraventricular nucleus; Stress (Imaki, T. (38) 166)

Dopamine D_1 receptor; Dopamine D_2 receptor; Dopamine D_3 receptor; Limbic system; mRNA (Damask, S.P. (41) 241)

Dopamine D_2 receptor; Monkey; MPTP; Parkinson's disease; L-DOPA; Dyskinesia (Herrero, M.T. (42) 149)

Dorsal root ganglion; mRNA; Sodium channel; Reverse transcription polymerase chain reaction (RT-PCR) (Black, J.A. (43) 117)

Fibroblast growth factor; Fibroblast growth factor receptor; Brain; Development; Polymerase chain reaction (Ozawa, K. (41) 279)

Focal ischemia; NGFI-A; NGFI-B; BDNF; Immediate early gene (Lin, T.-N. (43) 149)

G-protein-coupled receptor; Receptor antibody; Gene regulation; Rat brain; SR 48692 (Azzi, M. (42) 213)

GAP-43; Human CNS development; Process outgrowth; Cerebral cortex; Hippocampus (Kanazir, S. (38) 145)

Glutamate/aspartate transporter; Facial nerve; Axotomy (Yamashita, T. (38) 294)

GnRH receptor; Estrogen; Pituitary (Quiñones-Jenab, V. (38) 243)

Human; Melatonin receptor; Brain; Cerebellum; Cortex; Autoradiography; mRNA distribution (Mazzucchelli, C. (39) 117)

Hypothyroidism; SNF4/CAT3; AMP-activated protein kinase; Brain; Mouse; Goat (Piosik, P.A. (40) 240)

Insulin receptor-related receptor; Rat brain; TrkA; Cholinergic neuron; Immunohistochemistry (Tsuji, N. (41) 250)

Lithium; Electroconvulsive therapy; Manic-depressive illness; Cholecystokinin; mRNA expression; Rat brain (Zachrisson, O. (43) 347)

Metabotropic; Glutamate; Receptor; G protein (Makoff, A. (40) 55)

Naloxone; Morphine; Withdrawal; Preproenkephalin mRNA; Periaqueductal gray; Rat (Fukunaga, Y. (42) 128)

Phosphatidylinositol 3-kinase; Nerve crush; Hypoglossal nerve (Ito, Y. (37) 329)

Pineal gland; Retina; cDNA cloning; Polymerase chain reaction; EGF-like repeat (Wang, X. (41) 269)

RC3/Neurogranin; Hypothyroidism; Corpus striatum; Goat (Piosik, P.A. (42) 227)

RNA; $GABA_A$ receptor; Triazolam; Chronic; Limbic system (Ramsey-Williams, V.A. (43) 132)

Sodium- and chloride-dependent neurotransmitter transporter family; v7-3; mRNA expression; Widespread brain distribution (Inoue, K. (37) 217)

TRP; Store-operated Ca^{2+} channel; Rat brain; Development (Funayama, M. (43) 259)

Transcription factor; Homeodomain; Zinc finger; Neuronal differentiation; Gene expression; RNase protection assay (Watanabe, M. (42) 344)

Tyrosine kinase receptor; Chick; *c-ret* Proto-oncogene; Motoneuron; Trophic factor; Deafferentation; Denervation (Nakamura, M. (39) 1)

Weaver mutation; Dopamine membrane transporter; Tyrosine hydroxylase; Vesicular monoamine transporter; Parkinson's disease (Adelbrecht, C. (43) 291)

cAMP-specific phosphodiesterase; Brain; Distribution (Iwahashi, Y. (38) 14)

α-Bungarotoxin; Nicotinic receptor; Neuroanatomy; Genetics (Marks, M.J. (39) 207)

5-HT_{2A} receptor; 5-HT_{2A} mRNA; N-ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Autoradiography; Receptor regulation (Raghupathi, R.K. (39) 198)

Acetylcholine; Efferent innervation; Cochlea; Superior olivary complex; Guinea pig; Rat; Reverse transcriptase–polymerase chain reaction (Safieddine, S. (40) 127)

$GABA_A$ receptor; Enteric nervous system; Reverse transcription–polymerase chain reaction; γ-Aminobutyric acid; Myenteric plexus; Rat (Zeiter, D.K. (39) 241)

$GABA_A$ receptor; Nucleus ambiguus; Nucleus of the solitary tract; Pseudorabies virus; Immunohistochemistry; Esophageal peristalsis (Broussard, D.L. (40) 143)

Growth factor; Choroid plexus; Brain injury; Microglia; GFAP (Knuckey, N.W. (40) 1)

Kindling; Epilepsy; NMDA receptor; Alternative splicing; Plasticity (Kraus, J.E. (41) 97)

Leucine-rich repeat protein; NLRR-3; Cerebral cortex; Brain injury (Ishii, N. (40) 148)

Metabotropic glutamate receptor; G-protein; Hippocampus; Human polymorphism (Makoff, A. (40) 165)

NMDA receptor subunit; Ethanol physical dependence; Immunoreactivity; Subunit specific antibody (Snell, L.D. (40) 71)

Na^+-*myo*-inositol cotransporter; Osmolyte; Hypernatremia; Cerebellum (Minami, Y. (40) 64)

Opioid receptor; Opiate tolerance; Spinal cord; K^+ channel (Matus-Leibovitch, N. (40) 261)

Somatostatin receptor; Gonadal regulation; Anterior pituitary; Rat (Señarís, R.M. (38) 171)

Transgenic mouse; *lacZ* reporter gene; Granule cell; Pyramidal cell; Kainic acid; Gene expression; GAP-43 (McNamara, R.K. (40) 177)

Tryptophan hydroxylase mRNA; Nycthemeral rhythm; Rat pineal gland (Besançon, R. (40) 136)

Hydridization histochemistry, in situ
Cholinergic neurons; Acetylcholine; Vesicular transporter; Non-radiolabeled riboprobes; Rat central nervous system (Roghani, A. (43) 65)

6-Hydroxydopamine
Dopamine; Dynorphin A(1–8); GBR-12909; Neurokinin A; Preprotachykinin; Prodynorphin; Substance P; Cyclophilin (Sivam, S.P. (35) 197)

Dopamine; Enkephalin; Messenger RNA; Partial lesion; Substance P; Striatum; Tyrosine hydroxylase (Nisenbaum, L.K. (37) 209)

6-Hydroxydopamine lesion
NMDA receptor; MK-801; GAD67 mRNA; Striatum; Hybridization, in situ (Hajji, M.D. (43) 219)

5-Hydroxytryptamine
Methysergide; Somatostatin receptors; Adenylate cyclase; Brain; Rat (Muñoz-Acedo, G. (37) 259)

Hypernatremia
Na^+-*myo*-inositol cotransporter; Osmolyte; Hybridization, in-situ; Cerebellum (Minami, Y. (40) 64)

Hyperosmolality
Gene expression; AP-1 DNA binding; Fos; Jun; Transcription factor; Supraoptic nucleus; Paraventricular nucleus (Ying, Z. (39) 109)

Hypertension
Exercise; Post-exercise hypotension; Enkephalin; Blood pressure; Rostral ventrolateral medulla (Boone Jr., J.B. (42) 31)

Hypertonicity
Na^+/*myo*-inositol cotransporter; In situ hybridization; Rat; Retina (Morimura, H (35) 333)

Hypoglossal
Growth factor; Cytokine; Nerve injury; Rat (Morita, N. (42) 263)

Hypoglossal nerve
Phosphatidylinositol 3-kinase; Nerve crush; Hybridization, in situ (Ito, Y. (37) 329)

Hypoglossal nucleus
α-CGRP; β-CGRP; Gene expression; In situ hybridization; Axotomy; Neuron regeneration; Motoneuron; Neurotrophic factor; Rat (Sarasa, M. (35) 269)

Hypothalamus
Amino acid imbalance; Rat; Anorexia; α_2-Noradrenergic receptor; Norepinephrine; Feeding; Anterior piriform cortex (Gietzen, D.W. (35) 41)

Cocaine; Chronic infusion; Gene expression; Prodynorphin mRNA; Rat; Caudate-putamen (Romualdi, P. (40) 153)

Creatine kinase; Nervous system; Cerebellum; Hippocampus; Cortex; Brain stem; Spinal cord; Olfactory bulb; Striatum; Thalamus; Gender; Sex; Interleukin; Cytokine (Ilyin, S.E. (41) 50)

Endotoxin; Choroid plexus; Prostaglandin; Interleukin-1β; c-*fos*; Corticotrophin releasing hormone; Oxytocin; Vasopressin; Sheep (Vellucci, S.V. (43) 41)

Interleukin; Cytokine; Growth factor; Neuroimmunology; Immune system; Nervous system; Cerebellum; Hippocampus; Cortex; Midbrain; Feeding; Food intake; mRNA; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

Oxytocin; Carbon monoxide; Neurohypophysis; Hemin; ZnPP9 (Kostoglou-Athanassiou, I. (42) 301)

PACAP; Gonadotropin-releasing hormone; Somatostatin; Gene expression (Li, S. (41) 157)

Pituitary; Transgene; Osmotic stimulation; Polymerase chain reaction (Burke, Z.D. (42) 287)

Proopiomelanocortin; β-Endorphin; α-Melanocyte-stimulating hormone; Morphine (Wardlaw, S.L. (41) 140)

Somatostatin; GHRH; Non-androgenic testicular factors (Lago, F. (35) 220)

Transcription factor; POU; Neuropeptide; Gene regulation; In situ hybridization; Autoregulation (Malik, K.F. (38) 209)

Hypothyroid
Cerebrum; Tubulin; Actin; mRNA; Transcription (Poddar, R. (35) 111)

Hypothyroidism
RC3/Neurogranin; Corpus striatum; Hybridization, in situ; Goat (Piosik, P.A. (42) 227)

SNF4/CAT3; AMP-activated protein kinase; Hybridization, in situ; Brain; Mouse; Goat (Piosik, P.A. (40) 240)

c-*fos* mRNA; Audiogenic seizure; Inferior colliculus; Propylthiouracil; In situ hybridization; Epilepsy (Kato, N. (38) 85)

Hypoxia
Tyrosine hydroxylase mRNA; Tyrosine hydroxylase protein; Nucleus tractus solitarius; A2C2 neuron; Chemoreceptor pathway; Long-term hypoxia (Dumas, S. (40) 188)

Hypoxia ischemia
Clusterin; Selective neuronal death; Programmed cell death; Necrosis (Walton, M. (39) 137)

Hypoxic-ischemia
Programmed cell death; Neuroprotection; cAMP; Jun (Walton, M. (43) 21)

I

I-κBα/MAD3
Alzheimer's disease; β-Amyloid precursor protein; cGMP; Tumor necrosis factor; NF-κB; Calcium; Free radical; Antisense (Barger, S.W. (40) 116)

Ifenprodil
N-methyl-D-aspartate; Neuron; Cell culture; Electrophysiology; Receptor subtype; Receptor expression (Priestley, T. (40) 271)

[^{123}I]Iodobenzamide
Haloperidol and metabolites; Neurotoxicity; Tardive dyskinesia; Single photon emission computed tomography; Dopamine receptor binding; Baboon; 4-(4-Chlorophenyl)-[4-(fluorophenyl)-4-oxobutyl]-1,2,3,6-tetrahydropyridine (Van der Schyf, C.J. (43) 251)

IκB
NF-κB; Long-term potentiation; Hippocampus; Protein kinase C; Rat; Transcription factors; mRNA (Meberg, P.J. (38) 179)

IL-1
Adrenalectomy; Lipopolysaccharide; Tumor necrosis factor; IL-6; IL-1ra; Spleen; Pituitary; Brain; Mice (Goujon, E. (36) 53)

IL-6
Adrenalectomy; Lipopolysaccharide; IL-1; Tumor necrosis factor; IL-1ra; Spleen; Pituitary; Brain; Mice (Goujon, E. (36) 53)

IL-1ra
Adrenalectomy; Lipopolysaccharide; IL-1; Tumor necrosis factor; IL-6; Spleen; Pituitary; Brain; Mice (Goujon, E. (36) 53)

IMHV
MARCKS; Imprinting; Protein F1; GAP-43; mRNA; Learning (Meberg, P.J. (35) 149)

Immediate early gene
AP-1; Circadian rhythm; Optic nerve (Bennett, M.R. (42) 140)

Focal ischemia; NGFI-A; NGFI-B; BDNF; Hybridization, in situ (Lin, T.-N. (43) 149)

In situ hybridization; Neuronal death; Hippocampus; Signal transduction (Kamme, F. (43) 51)

Nurr1; NGFI-B; In-situ hybridization; Transcription factor; Orphan receptor (Zetterström, R.H. (41) 111)

SCH 23390; Sulpiride; Opioid; In situ hybridization; Striatum; Sensorimotor cortex; Psychostimulant; Transcription factors (Daunais, J.B. (35) 237)

Transcription factor; Peripheral nerve grafting; *bZip* superfamily; CRE-BP1; HB16; TREB7 (Robinson, G.A. (41) 57)

c-*fos*; *jun D*; pp60^{c-src+}; Hybridisation, in-situ; Striatal lesion; Striatal graft; Development (Haque, N.S.K. (41) 90)

Cocaine; Alcohol; Stress; Rat (Torres, G. (43) 225)

Gene regulation; Transcription factor; Hippocampus; Seizure; Lindane; PC12 cell; Signal-transcription coupling (Peña de Ortiz, S. (38) 1)

Programed cell death; Focal ischemia; *bcl-2* gene family; DNA fragmentation; Stroke (Gillardon, F. (40) 254)

Transcription factor; Acetylcholine; Glutamate; Long-term potentiation; Memory (Dragunow, M. (36) 349)

Forebrain ischemia; Immuno-histochemistry (Kumar, K. (42) 337)

c-*fos*; c-*jun*; JunB; Traumatic brain injury (Raghupathi, R. (37) 134)

c-*fos*; REM sleep; Brainstem; Acetylcholine (Shiromani, P.J. (38) 77)

Immune system
Interleukin; Cytokine; Growth factor; Neuroimmunology; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Midbrain; Feeding; Food intake; mRNA; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

Immunocytochemistry
GABA; Transporter; Electron microscopy; Cerebellum; Presynapse; Glial process (Itouji, A. (37) 309)

Insulin-regulatable glucose transporter; GLUT4; Glucose utilization; Brain metabolism; Neuron; Reverse transcription-polymerase chain reaction (RT-PCR) (Leloup, C. (38) 45)

Mouse; Midbrain; Dopaminergic neuron; MPTP; Western blot; Neurodegeneration; Calbindin-D_{28k} (Ng, M.C. (36) 329)

Retrograde tracing; Fluorogold; Lesions; Reproduction; Opioid peptide; Sexual dimorphism (Hoffman, G.E. (36) 201)

SERCA; Endoplasmic reticulum; Single-cell PCR; Brain; Purkinje neuron (Baba-Aïssa, F. (41) 169)

Serotonin 5-HT_{1B} receptor; In situ hybridization; Olfactory tubercle; γ-Aminobutyric acid (Cloëz-Tayarani, I. (36) 337)

Site specific peptide; Multiple antigenic peptide; Polymerase chain reaction; 5,7-Dihydroxytryptamine; Fusion protein; Dorsal raphe (Zhou, F.C. (43) 267)

Tetradecanoylphorbol acetate; In situ hybridization; Northern blot hybridization; Development; Neurons; Astrocytes (Just, L. (35) 157)

Western blot; MKP-1; 3CH134; Epilepsy; Phosphatase (Gass, P. (41) 74)

Immunogold
Voltage-operated potassium channel; Voltage-operated sodium channel; Preembedding; Silver enhancement; Gold toning; Electron microscopy; Rat; Cerebellum (Laube, G. (42) 51)

Immuno-histochemistry
Immediate early genes; Forebrain ischemia (Kumar, K. (42) 337)

Immunohistochemistry
Basic fibroblast growth factor; Cerebral ischemia; Cerebral infarction; Rat; Northern blot; In situ hybridization (Speliotes, E.K. (39) 31)

Dopamine; Serotonin; C-*fos*; 5-HT_{1A} receptors; 5-HT_2 receptors; 5-HT_3 receptors; D_1 receptors; Agonists; Antagonists; Striatum; 6-OHDA; Rat (Rouillard, C. (37) 105)

$GABA_A$ receptor; Nucleus ambiguus; Nucleus of the solitary tract; Pseudorabies virus; Hybridization, in-situ; Esophageal peristalsis (Broussard, D.L. (40) 143)

Insulin receptor-related receptor; Rat brain; TrkA; Cholinergic neuron; Hybridization, in situ (Tsuji, N. (41) 250)

Oligodendrocytes; Schwann cells; Myelin (Moore, C. (37) 74)

Immunoreactivity
NMDA receptor subunit; Ethanol physical dependence; Hybridization, in-situ; Subunit specific antibody (Snell, L.D. (40) 71)

Imprinting
MARCKS; Protein F1; GAP-43; mRNA; IMHV; Learning (Meberg, P.J. (35) 149)

Inducible promoter
Herpes simplex virus; Defective vector; Tetracycline; Hippocampus; Hippocampal neuron (Ho, D.Y. (41) 200)

Infection
Cell culture; Tyrosine hydroxylase; X-gal cytochemistry; Cell type-specific expression (Oh, Y.J. (35) 227)

Inferior colliculus
c-*fos* mRNA; Audiogenic seizure; Hypothyroidism; Propylthiouracil; In situ hybridization; Epilepsy (Kato, N. (38) 85)

Inflammation
Substance P; Nerve growth factor; Preprotachykinin mRNA; trkA mRNA; Diabetic neuropathy (Garrett, N.E. (42) 272)

Infralimbic cortex
Anterior piriform cortex; Amino acid imbalanced diet; Threonine; Feeding behavior; Dorsomedial nucleus of the hypothalamus (Wang, Y. (40) 27)

Initiation factor
Primary neuronal culture; Translational regulation; Protein phosphorylation (Alcázar, A. (38) 101)

Injury
TNF-α; mRNA; Northern blot; Cortex; Fluid percussion (Fan, L. (36) 287)

Inner ear
Na^+/*myo*-inositol cotransporter; Rat; In situ hybridization (Minami, Y. (35) 319)

In situ
Genetically epilepsy-prone rat; mRNA; Neurotransporters; Tyrosine hydroxylase; Tryptophan hydroxylase; Norepinephrine transporter; Dopamine transporter; Serotonin transporter (Szot, P. (43) 233)

In situ hybridization
α-CGRP; β-CGRP; Gene expression; Axotomy; Neuron regeneration; Motoneuron; Neurotrophic factor; Hypoglossal nucleus; Rat (Sarasa, M. (35) 269)

α-Tubulin; Gene isotype; Cerebellum; Granule cell; Neuritogenesis; Neuronal culture (Przyborski, S.A. (36) 179)

AMPA receptor; NMDA receptor; Electroconvulsive stimulation; Long-term potentiation; Memory (Naylor, P. (35) 349)

Axotomy; Avulsion; Spinal cord; Ventral horn; GAP-43; Synaptic protein; Nucleus; Intron; mRNA; Gene; Rat; Chicken (Jacobsson, G. (37) 49)

Basic fibroblast growth factor; Cerebral ischemia; Cerebral infarction; Rat; Northern blot; Immunohistochemistry (Speliotes, E.K. (39) 31)

Basic helix-loop-helix; Transcription factor; Neuronal differentiation; Gene expression; Cerebellum (Haire, M.F. (36) 174)

Corticosterone; Kainate receptors; Hippocampus; Rat (Joëls, M. (37) 15)

Dopamine transporter; Synaptic vesicle amine transporter; Neuromelanin; Parkinson's disease (Harrington, K.A. (36) 157)

GABA; TrkB; Hippocampus; mRNA (Zachrisson, O. (36) 169)

Galanin; Neuropeptide Y; Tyrosine hydroxylase; Locus coeruleus; Olfactory bulb; Messenger RNA; Trophic factors (Holmes, P.V. (36) 184)

Glutamate; Cotransport; Vaccinia virus; Sequence; Expression (Bjørås, M. (36) 163)

Immediate early gene; Neuronal death; Hippocampus; Signal transduction (Kamme, F. (43) 51)

Kindling; Cholecystokinin; Seizure; Electroconvulsive seizure (Zhang, L.-X. (35) 278)

LIM domain; Development; Rat; Brain; Localization (Furuyama, T. (36) 152)

Metabotropic glutamate receptor; Glutamate receptor, metabotropic; G protein; L-2-Amino-4-phosphonobutyrate (L-AP4); Cyclic AMP (Makoff, A. (37) 239)

Na^+/*myo*-inositol cotransporter; Hypertonicity; Rat; Retina (Morimura, H. (35) 333)

Na^+/*myo*-inositol cotransporter; Inner ear; Rat (Minami, Y. (35) 319)

Plasminogen activator; Urokinase; Urokinase-type plasminogen activator; uPA mRNA localization in the mouse brain; Subiculum; Entorhinal cortex; Parietal cortex (Masos, T. (35) 139)

Rat; Head trauma; Insulin-like growth factor; Insulin-like growth factor binding protein; Cholecystokinin; Gene regulation; Gene expression (Sandberg Nordqvist, A.-C. (38) 285)

SCH 23390; Sulpiride; Opioid; Striatum; Sensorimotor cortex; Psychostimulant; Immediate early gene; Transcription factors (Daunais, J.B. (35) 237)

Serotonin 5-HT_{1B} receptor; Olfactory tubercle; γ-Aminobutyric acid; Immunocytochemistry (Cloëz-Tayarani, I. (36) 337)

Spermidine/spermine N^1-acetyltransferase; Putrescine; Spermidine; Natural polyamines; Cell death; Cerebral ischemia; Rat (Zoli, M. (38) 122)

Stress non-responsive period; Aging; Corticotropin releasing hormone receptor (Ceccatelli, S. (37) 175)

Suprachiasmatic nucleus; Supraoptic nucleus; Rat; Circadian rhythm; Glutamate transporter; EAAC1; Glutamate uptake (Cagampang, F.R.A. (35) 190)

Tetradecanoylphorbol acetate; Northern blot hybridization; Immunocytochemistry; Development; Neurons; Astrocytes (Just, L. (35) 157)

Transcription factor; POU; Hypothalamus; Neuropeptide; Gene regulation; Autoregulation (Malik, K.F. (38) 209)

UbC; UbB; UbA; Rat; Cortex; Hippocampus; Dot-blotting (Noga, M. (36) 261)

c-*fos* mRNA; Audiogenic seizure; Hypothyroidism; Inferior colliculus; Propylthiouracil; Epilepsy (Kato, N. (38) 85)

c-*fos*; Growth hormone-releasing peptide; Growth hormone; Growth hormone-releasing factor; Somatostatin (Kamegai, J. (39) 153)

mRNA; Caudate putamen; Anesthesia; Barbiturate; Sedative; Pentobarbital; Chloral hydrate (Quiñones-Jenab, V. (35) 297)

mRNA; Protein phosphatase T; PP5; Rat brain (Becker, W. (36) 23)

CRH-R1 mRNA; C57; DBA; Restraint stress; Cortical areas (Giardino, L. (40) 310)

Nurr1; NGFI-B; Immediate early gene; Transcription factor; Orphan receptor (Zetterström, R.H. (41) 111)

Receptor tyrosine phosphatase; Chondroitin sulfate proteoglycan; Trk receptor; Hippocampus; Sprouting; Lesion; Glial scarring (Snyder, S.E. (40) 79)

In situ hybridization histochemistry
Neuropeptide Y; Arcuate nucleus; Spontaneously hypertensive rat; Y_2 receptor; Nucleus tractus solitarius; Autoradiography (McLean, K.J. (35) 249)

Insulin-like growth factor
Rat; Head trauma; In situ hybridization; Insulin-like growth factor binding protein; Cholecystokinin; Gene regulation; Gene expression (Sandberg Nordqvist, A.-C. (38) 285)

Insulin-like growth factor binding protein
Rat; Head trauma; In situ hybridization; Insulin-like growth factor; Cholecystokinin; Gene regulation; Gene expression (Sandberg Nordqvist, A.-C. (38) 285)

Insulin receptor-related receptor
Rat brain; TrkA; Cholinergic neuron; Hybridization, in situ; Immunohistochemistry (Tsuji, N. (41) 250)

Insulin-regulatable glucose transporter
GLUT4; Glucose utilization; Brain metabolism; Neuron; Immunocytochemistry; Reverse transcription-polymerase chain reaction (RT-PCR) (Leloup, C. (38) 45)

Interleukin
Creatine kinase; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Brain stem; Spinal cord; Olfactory bulb; Striatum; Thalamus; Gender; Sex; Cytokine (Ilyin, S.E. (41) 50)

Cytokine; Growth factor; Neuroimmunology; Immune system; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Midbrain; Feeding; Food intake; mRNA; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

Interleukin-1β
Endotoxin; Choroid plexus; Prostaglandin; c-*fos*; Hypothalamus; Corticotrophin releasing hormone; Oxytocin; Vasopressin; Sheep (Vellucci, S.V. (43) 41)

Interleukin-1β converting enzyme
bcl-2; *bax*; *bcl-x*; DNA fragmentation; Stroke (Honkaniemi, J. (42) 79)

Interneuron
NMDA receptor; Neostriatum; Somatostatin; Choline acetyltransferase; GABAergic (Standaert, D.G. (42) 89)

Intracellular Ca^{2+}
Nerve growth factor; AP-1; cAMP; 12-*O*-Tetradecanoyl phorbol-13-acetate; mRNA stability (Colangelo, A.M. (35) 1)

Intracerebroventricular
Interleukin; Cytokine; Growth factor; Neuroimmunology; Immune system; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Midbrain; Feeding; Food intake; mRNA; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

Intron
Axotomy; Avulsion; Spinal cord; Ventral horn; GAP-43; Synaptic protein; Nucleus; In situ hybridization; mRNA; Gene; Rat; Chicken (Jacobsson, G. (37) 49)

Inward rectifier
Potassium channel; G protein; cDNA cloning; Human cerebellum; Restriction fragment length polymorphism; Serotonin receptor (Schoots, O. (39) 23)

Ion channel
AMPA-Glutamate receptor; Chick brain; cDNA cloning; RNA editing; Alternative splicing (Paperna, T. (36) 101)

Sodium channel; Epilepsy; Ligase detection reaction; mRNA quantitation (Lombardo, A.J. (35) 84)

Ionic dependences
Neurotransmitter transporter; Antidepressant; Cocaine; Raphe nuclei; Lipofection (Chang, A.S. (43) 185)

Ionizing radiation
Bcl-2; Bax; c-Myc; Fos; Jun; Apoptosis; Cell death; Development; Nervous system (Ferrer, I. (38) 91)

Ionomycin
Calcium; Gene expression; AP1; CREB (Nankova, B. (35) 164)

[^{125}I]Sar^1-ANG II binding
Angiotensin II; Receptor subtypes; Brain development (Jöhren, O. (37) 192)

[^{125}I]SB 207710
5-HT_4 receptor; Splice variant; Basal ganglia; Pre-synaptic receptor (Vilaró, M.T. (43) 356)

Ischemia
Differential display; SPI-3; Astrocyte (Tsuda, M. (35) 314)

Glycine; Glycine transporter; Retina; mRNA expression; NMDA receptor (Goebel, D.J. (40) 139)

Isoforms
Protein kinase C; Cell proliferation; Calphostin C; H7; Neuroblastoma (Cabedo, H. (37) 125)

J

Jun
Bcl-2; Bax; c-Myc; Fos; Apoptosis; Cell death; Ionizing radiation; Development; Nervous system (Ferrer, I. (38) 91)

Electroacupuncture; Fos; Preproenkephalin; Preprodynorphin; Antisense oligodeoxynucleotide (Guo, H.-F. (43) 167)

Gene expression; AP-1 DNA binding; Fos; Transcription factor; Hyperosmolality; Supraoptic nucleus; Paraventricular nucleus (Ying, Z. (39) 109)

Hypoxic-ischemia; Programmed cell death; Neuroprotection; cAMP (Walton, M. (43) 21)

c-Jun
Prodynorphin; PC12 cell; Transient transfection; Gel supershift analysis; Gene regulation (Messersmith, D.J. (40) 15)

JunB
Apoptosis; Radiation; Fetal rat brain; Messenger RNA; p53; Fos; Bax (Borovitskaya, A.E. (35) 19)

Immediate early genes; c-*fos*; c-*jun*; Traumatic brain injury (Raghupathi, R. (37) 134)

K

Kainate receptors
Corticosterone; In situ hybridization; Hippocampus; Rat (Joëls, M. (37) 15)

Kainic acid
Calcium-binding protein; Dopamine; *N*-Methyl-D-aspartic acid; (±)-α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Cytotoxicity; Phosphorylated cAMP/Ca^{2+} response element-binding protein (Isaacs, K.R. (36) 114)

Chemical kindling; FG 7142; β-Carboline; γ-Aminobutyric acid; *N*-Methyl-D-aspartate; Xenopus oocytes (Lewin, E. (37) 304)

Hybridization, in situ; Astrocyte; mRNA; Northern blot analysis (Owada, Y. (42) 156)

Synaptotagmin; Development; Seizure; Hippocampus; Limbic system (Tocco, G. (40) 229)

Transgenic mouse; *lacZ* reporter gene; Hybridization, in-situ; Granule cell; Pyramidal cell; Gene expression; GAP-43 (McNamara, R.K. (40) 177)

Kappa opioid receptor
Preprodynorphin; Cocaine; Preproenkephalin; Rat; Brain (Spangler, R. (38) 71)

K^+ channel
Opioid receptor; Opiate tolerance; Hybridization, in-situ; Spinal cord (Matus-Leibovitch, N. (40) 261)

Kindling
Epilepsy; Glutamate; Metabotropic receptor; mGluR1; mGluR5; Hippocampus (Akbar, M.T. (43) 105)

Epilepsy; NMDA receptor; Alternative splicing; Plasticity; Hybridization, in-situ (Kraus, J.E. (41) 97)

In situ hybridization; Cholecystokinin; Seizure; Electroconvulsive seizure (Zhang, L.-X. (35) 278)

Krox-24
Zif-268; Visual development; Plasticity; Proto-oncogene; Critical period (Kaplan, I.V. (36) 12)

Krüppel-type zinc finger protein
Acidic domain; Central nervous system; Glial cell; Rat; Transcription factor (Pott, U. (38) 109)

L

L1
Neural cell adhesion molecule; Neural regeneration; Gene therapy; Herpes simplex virus; Astrocytes; Cerebellar granule cells (Yazaki, T. (43) 311)

Lactation
Calbindin-D28k; mRNA; Oxytocin; Vasopressin; Dehydration; Parturition; Rat (Voisin, D.L. (42) 279)

LacZ
Neurons; Gene therapy; Viral vector; HSV; Alkaline phosphatase (New, K.C. (37) 317)

Laminin
Tyrosine phosphorylation; Neurite outgrowth; Actin; Focal adhesion kinase; Paxillin; Cytoskeleton (Leventhal, P.S. (43) 338)

Large-T antigen
Human CNS precursor cell; Transfection; Lipofectamine (Cattaneo, E. (42) 161)

Lateral amygdala
Stimulus-transcription coupling; Cortico-striatal projection; Topographic organization; Caudal striatum; Mouse (Arnauld, E. (41) 27)

Learning
MARCKS; Imprinting; Protein F1; GAP-43; mRNA; IMHV (Meberg, P.J. (35) 149)

Leech
LORF; Neuropeptide; Osmoregulation (Salzet, M. (43) 301)

Lesion
Receptor tyrosine phosphatase; Chondroitin sulfate proteoglycan; Trk receptor; In-situ hybridization; Hippocampus; Sprouting; Glial scarring (Snyder, S.E. (40) 79)

Retrograde tracing; Fluorogold; Immunocytochemistry; Reproduction; Opioid peptide; Sexual dimorphism (Hoffman, G.E. (36) 201)

Leucine-rich repeat
cDNA; Mouse; Nervous system; Adhesion molecule; Receptor (Taniguchi, H. (36) 45)

Leucine-rich repeat protein
LRR; NLRR-1; NLRR-2 (Taguchi, A. (35) 31)

NLRR-3; Cerebral cortex; Brain injury; Hybridization, in-situ (Ishii, N. (40) 148)

Leukocyte derived amyloid precursor protein
Alzheimer's disease; Amyloid precursor protein; Alternative splicing; Serum deprivation; mRNA regulation; Quantitative polymerase chain reaction (Sudoh, S. (39) 12)

Ligand-gated ion channel receptor
Glycine receptor; Human; Molecular cloning; Chromosomal localization; *Spastic* mouse (Handford, C.A. (35) 211)

Ligase detection reaction
Sodium channel; Ion channel; Epilepsy; mRNA quantitation (Lombardo, A.J. (35) 84)

Light
C3H/HeN mice; Suprachiasmatic nucleus; Retina; c-*fos* mRNA (Masana, M.I. (42) 193)

Light stimulus
Suprachiasmatic nucleus; Circadian rhythm; Photosensitivity; C-*fos*; Fos-lir; Testicular activity (Boissin-Agasse, L. (37) 21)

Limbic system
Dopamine D_1 receptor; Dopamine D_2 receptor; Dopamine D_3 receptor; Hybridization, in situ; mRNA (Damask, S.P. (41) 241)

Hybridization, in situ; RNA; $GABA_A$ receptor; Triazolam; Chronic (Ramsey-Williams, V.A. (43) 132)

Kainic acid; Synaptotagmin; Development; Seizure; Hippocampus (Tocco, G. (40) 229)

LIM domain
Development; Rat; In situ hybridization; Brain; Localization (Furuyama, T. (36) 152)

Lindane
Gene regulation; Transcription factor; Immediate-early gene; Hippocampus; Seizure; PC12 cell; Signal-transcription coupling (Peña de Ortiz, S. (38) 1)

Lipofectamine
Human CNS precursor cell; Transfection; Large-T antigen (Cattaneo, E. (42) 161)

Lipofection
Neurotransmitter transporter; Antidepressant; Cocaine; Ionic dependences; Raphe nuclei (Chang, A.S. (43) 185)

Lipopolysaccharide
Adrenalectomy; IL-1; Tumor necrosis factor; IL-6; IL-1ra; Spleen; Pituitary; Brain; Mice (Goujon, E. (36) 53)

Nitric oxide; Nitric oxide synthase; GTP cyclohydrolase I; Tetrahydrobiopterin; Astrocyte; Cytokine (D'Sa, C. (41) 105)

Liposomes
Transfection; Neuronal culture; Hippocampus; Beta-galactosidase (Kaech, S. (35) 344)

Lithium
Electroconvulsive therapy; Manic-depressive illness; Cholecystokinin; mRNA expression; Hybridization, in situ; Rat brain (Zachrisson, O. (43) 347)

G-Protein; Bipolar disorder; Gene expression (Young, L.T. (42) 45)

Localization
G-protein-coupled receptor; Orphan receptor; edg-1; Audiogenic seizure; Expression (Macrae, A.D. (42) 245)

LIM domain; Development; Rat; In situ hybridization; Brain (Furuyama, T. (36) 152)

Locus coeruleus
Galanin; Neuropeptide Y; Tyrosine hydroxylase; Olfactory bulb; In situ hybridization; Messenger RNA; Trophic factors (Holmes, P.V. (36) 184)

Monoamine oxidase; Dorsal raphe; Hybridization histochemistry (Luque, J.M. (36) 357)

Long-term depolarization
Veratridine; Veratridine-induced SS gene expression; SS mRNA; Brain somatostatin; Short-term depolarization (Tolón, R.M. (35) 103)

Long-term hypoxia
Tyrosine hydroxylase mRNA; Tyrosine hydroxylase protein; Hypoxia; Nucleus tractus solitarius; A2C2 neuron; Chemoreceptor pathway (Dumas, S. (40) 188)

Long-term memory
CREB; cAMP; *Aplysia* (Dash, P.K. (39) 43)

Long-term potentiation
Antisense DNA; Hippocampus; CA1; Synaptic plasticity; Protein phosphatase; Calcineurin; FK506 (Ikegami, S. (41) 183)

DNA binding; Development; Hippocampus; Granule cell; GAP-43; NGF (Kinney, W.R. (38) 25)

Gene expression; c-*fos*; zif/268; αCAMKII; Hippocampus (Roberts, L.A. (42) 123)

Immediate-early gene; Transcription factor; Acetylcholine; Glutamate; Memory (Dragunow, M. (36) 349)

In situ hybridization; AMPA receptor; NMDA receptor; Electroconvulsive stimulation; Memory (Naylor, P. (35) 349)

NF-κB; IκB; Hippocampus; Protein kinase C; Rat; Transcription factors; mRNA (Meberg, P.J. (38) 179)

LORF
Leech; Neuropeptide; Osmoregulation (Salzet, M. (43) 301)

Lou Gehrig's disease
Human; Motor neuron; Amyotrophic lateral sclerosis; Trophic factor; Type-I IGF receptor; Type-II IGF receptor; Neurodegeneration; Clinical application (Doré, S. (41) 128)

LRR
Leucine-rich repeat protein; NLRR-1; NLRR-2 (Taguchi, A. (35) 31)

Luciferase activity
DBH promoter; Transient transfection; Silencer; cAMP regulation (Afar, R. (36) 79)

Luciferase assay
Neurotransmitter receptor; Rat brain; Primer extension; Sp1; AP2 (Maeno, H. (40) 97)

Luteinizing hormone-releasing hormone
Fish; Nervus terminalis; Midbrain; Preoptic nucleus; Pituitary (Parhar, I.S. (41) 216)

***Lymnaea* inhibitory peptide**
Neuromodulation; Amino acid sequencing; Edman degradation; Mass spectrometry (Li, K.W. (37) 267)

M

m234
Neuron-specific expression; D4S234; p1A75; p19; Multigene family; Evolutionary conservation; Golgi apparatus; Nuclear localization (Carlock, L. (42) 202)

Macronutrients
Zucker rat; Galanin; Neuropeptide Y; High fat diet; Gene expression (Mercer, J.G. (43) 202)

Major postsynaptic density protein
L-Arginine; *N*-L-Arginine-methyl ester; Calcium/calmodulin-dependent phosphorylation; Nitric oxide; Nitric oxide synthase; Sodium nitroprusside; Synapse (Wu, K. (40) 22)

Manic-depressive illness
Lithium; Electroconvulsive therapy; Cholecystokinin; mRNA expression; Hybridization, in situ; Rat brain (Zachrisson, O. (43) 347)

MAP2
Cytoskeleton; Microtubule; Alternative splicing; RNA transport (Kindler, S. (36) 63)

MAP kinase
Neuron specificity; Neuronal development; Stress-activated protein kinase β; Synaptogenesis; Neuroblastoma (Martin, J.H. (35) 47)

MARCKS
Imprinting; Protein F1; GAP-43; mRNA; IMHV; Learning (Meberg, P.J. (35) 149)

Mass spectrometry
Lymnaea inhibitory peptide; Neuromodulation; Amino acid sequencing; Edman degradation (Li, K.W. (37) 267)

Maternal behavior
Postpartum; Steroid receptor; Medial preoptic nucleus; Ventromedial nucleus; Medial amygdala; Bed nucleus of the stria terminalis (Wagner, C.K. (42) 328)

Medial amygdala
Maternal behavior; Postpartum; Steroid receptor; Medial preoptic nucleus; Ventromedial nucleus; Bed nucleus of the stria terminalis (Wagner, C.K. (42) 328)

Medial preoptic area
Androgen receptor; Estrogen receptor; Estrogen; Dihydrotestosterone; Bed nucleus of the stria terminalis; mRNA (Handa, R.J. (39) 57)

Medial preoptic nucleus
Maternal behavior; Postpartum; Steroid receptor; Ventromedial nucleus; Medial amygdala; Bed nucleus of the stria terminalis (Wagner, C.K. (42) 328)

Medulla oblongata
Tyrosine hydroxylase mRNA; Spontaneously hypertensive rats (Kumai, T. (36) 197)

MEF2
Mouse; Cerebellum; Granule cell; Differentiation; Cloning (Lin, X. (42) 307)

Melanocortin
Neuroblastoma; ACTH; Nerve regeneration; cAMP; G_s-coupled receptor (Adan, R.A.H. (36) 37)

α-Melanocyte-stimulating hormone
Proopiomelanocortin; β-Endorphin; Morphine; Hypothalamus (Wardlaw, S.L. (41) 140)

Melatonin
Tryptophan hydroxylase; Pineal; Circadian rhythm; Molecular cloning (Florez, J.C. (42) 25)

Melatonin receptor
Human; Brain; Cerebellum; Cortex; Hybridization, in situ; Autoradiography; mRNA distribution (Mazzucchelli, C. (39) 117)

Memory
Immediate-early gene; Transcription factor; Acetylcholine; Glutamate; Long-term potentiation (Dragunow, M. (36) 349)

In situ hybridization; AMPA receptor; NMDA receptor; Electroconvulsive stimulation; Long-term potentiation (Naylor, P. (35) 349)

Mouse; Neurofilament; Transgenic mouse; Animal model; Morris water maze; Alzheimer's disease (Haroutunian, V. (42) 62)

Messenger RNA
Apoptosis; Radiation; Fetal rat brain; p53; Fos; JunB; Bax (Borovitskaya, A.E. (35) 19)

Dopamine; Enkephalin; 6-Hydroxydopamine; Partial lesion; Substance P; Striatum; Tyrosine hydroxylase (Nisenbaum, L.K. (37) 209)

$GABA_A$ receptor; Benzodiazepine; Neuronal cell line; Gamma-2 subunit; Voltage clamp (Reynolds, J.N. (35) 11)

Galanin; Neuropeptide Y; Tyrosine hydroxylase; Locus coeruleus; Olfactory bulb; In situ hybridization; Trophic factors (Holmes, P.V. (36) 184)

Tachykinin NK1 receptor; Dorsal root ganglion; Gene expression; Reverse transcription-polymerase chain reaction; Mouse; CNS (Andoh, T. (35) 329)

Metabotropic
Glutamate; Receptor; G protein; Hybridization, in situ (Makoff, A. (40) 55)

Metabotropic glutamate receptor
G-protein; Hybridization, in-situ; Hippocampus; Human polymorphism (Makoff, A. (40) 165)

Glutamate receptor, metabotropic; G protein; L-2-Amino-4-phosphonobutyrate (L-AP4); Cyclic AMP; In situ hybridization (Makoff, A. (37) 239)

Metabotropic receptor
Epilepsy; Kindling; Glutamate; mGluR1; mGluR5; Hippocampus (Akbar, M.T. (43) 105)

Methamphetamine
AP-1 transcription factor; Neurotoxicity (Sheng, P. (42) 171)

***N*-Methyl-D-aspartate**
Chemical kindling; FG 7142; β-Carboline; Kainic acid; γ-Aminobutyric acid; Xenopus oocytes (Lewin, E. (37) 304)

***N*-Methyl-D-aspartate receptor**
Glutamate-binding protein; Ethanol; Cerebellar granule cell; NR1; NR2A; Antisense oligonucleotide (Hoffman, P.L. (39) 167)

***N*-Methyl-D-aspartic acid**
Calcium-binding protein; Dopamine; Kainic acid; (±)-α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Cytotoxicity; Phosphorylated cAMP/Ca^{2+} response element-binding protein (Isaacs, K.R. (36) 114)

1-Methyl-4-phenylpyridinium
Brain-derived neurotrophic factor; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Reverse transcriptase–polymerase chain reaction; Substantia nigra; Ventral tegmental area; Striatum; Nucleus accumbens; Gene expression (Hung, H.-C. (41) 16)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine
Brain-derived neurotrophic factor; 1-Methyl-4-phenylpyridinium; Reverse transcriptase–polymerase chain reaction; Substantia nigra; Ventral tegmental area; Striatum; Nucleus accumbens; Gene expression (Hung, H.-C. (41) 16)

Methysergide
5-Hydroxytryptamine; Somatostatin receptors; Adenylate cyclase; Brain; Rat (Muñoz-Acedo, G. (37) 259)

Mice
Adrenalectomy; Lipopolysaccharide; IL-1; Tumor necrosis factor; IL-6; IL-1ra; Spleen; Pituitary; Brain (Goujon, E. (36) 53)

Microglia
Cystatin C; Facial nucleus; Axotomy; Up-regulation; Differential hybridization (Miyake, T. (37) 273)

Growth factor; Choroid plexus; Brain injury; GFAP; Hybridization, in-situ (Knuckey, N.W. (40) 1)

Neuropeptide Y; Calcitonin gene-related peptide; Neurons; Proteinase; Degradation; Plasminogen activator; uPA; tPA (Ludwig, R. (37) 181)

Microsatellite
Trinucleotide repeat; Dentatorubral pallidoluysian atrophy; Huntington's disease (Margolis, R.L. (36) 219)

Microtubule
Cytoskeleton; Alternative splicing; MAP2; RNA transport (Kindler, S. (36) 63)

Alzheimer disease; Microtubule associated protein; Neurofibrillary degeneration; Paired helical filaments; Protein phosphatases (Wang, J.-Z. (38) 200)

Microtubule associated protein
Alzheimer disease; Microtubules; Neurofibrillary degeneration; Paired helical filaments; Protein phosphatases (Wang, J.-Z. (38) 200)

Midbrain
Fish; Luteinizing hormone-releasing hormone; Nervus terminalis; Preoptic nucleus; Pituitary (Parhar, I.S. (41) 216)

Interleukin; Cytokine; Growth factor; Neuroimmunology; Immune system; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Feeding; Food intake; mRNA; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

Mouse; Dopaminergic neuron; MPTP; Western blot; Immunocytochemistry; Neurodegeneration; Calbindin-D_{28k} (Ng, M.C. (36) 329)

Migration
5-HT; Astrocyte; Receptor; Glioma; Growth (Merzak, A. (41) 1)

MK-801
6-Hydroxydopamine lesion; NMDA receptor; GAD67 mRNA; Striatum; Hybridization, in situ (Hajji, M.D. (43) 219)

MKP-1
Western blot; Immunocytochemistry; 3CH134; Epilepsy; Phosphatase (Gass, P. (41) 74)

Molecular cloning
Glycine receptor; Human; Ligand-gated ion channel receptor; Chromosomal localization; *Spastic* mouse (Handford, C.A. (35) 211)

Tryptophan hydroxylase; Melatonin; Pineal; Circadian rhythm (Florez, J.C. (42) 25)

Monkey
Dopamine D_2 receptor; Hybridization, in situ; MPTP; Parkinson's disease; L-DOPA; Dyskinesia (Herrero, M.T. (42) 149)

Glutamate decarboxylase; Putamen; Parkinson's disease; MPTP; Hybridization histochemistry, in-situ (Soghomonian, J.-J. (39) 237)

Monoamine oxidase
Locus coeruleus; Dorsal raphe; Hybridization histochemistry (Luque, J.M. (36) 357)

Morphine
Naloxone; Withdrawal; Preproenkephalin mRNA; Periaqueductal gray; Hybridization, in situ; Rat (Fukunaga, Y. (42) 128)

Proopiomelanocortin; β-Endorphin; α-Melanocyte-stimulating hormone; Hypothalamus (Wardlaw, S.L. (41) 140)

Morris water maze
Mouse; Neurofilament; Transgenic mouse; Animal model; Memory; Alzheimer's disease (Haroutunian, V. (42) 62)

Motoneuron
α-CGRP; β-CGRP; Gene expression; In situ hybridization; Axotomy; Neuron regeneration; Neurotrophic factor; Hypoglossal nucleus; Rat (Sarasa, M. (35) 269)

Tyrosine kinase receptor; Chick; *c-ret* Proto-oncogene; Trophic factor; Deafferentation; Denervation; Hybridization, in situ (Nakamura, M. (39) 1)

Motoneuron development
Choline acetyltransferase; Spinal muscular atrophy of childhood; mRNA stabilization; Neurofilament overexpression; Neuromuscular diseases; RT-PCR; Transcriptional regulation (Pernas-Alonso, R. (38) 267)

Motor neuron
Human; Lou Gehrig's disease; Amyotrophic lateral sclerosis; Trophic factor; Type-I IGF receptor; Type-II IGF receptor; Neurodegeneration; Clinical application (Doré, S. (41) 128)

Motor neuron disease
Calmodulin kinase type II; Wobbler; Mouse; Spinal muscular atrophy (Bronstein, J.M. (43) 330)

Mouse
Antisense RNA; Heat shock gene; Central nervous system (Murashov, A.K. (37) 85)

Axotomy; Brain; Cell culture; Histochemistry; β-Galactosidase; Neuropeptide; Superior cervical ganglion; Transgene; Vasoactive intestinal peptide (Tsuruda, L.M. (42) 181)

Calmodulin kinase type II; Wobbler; Motor neuron disease; Spinal muscular atrophy (Bronstein, J.M. (43) 330)

GT1 cell; RNA processing; GnRH; RNase protection assay; Phorbol ester (Yeo, T.T.S. (42) 255)

Hypothyroidism; SNF4/CAT3; AMP-activated protein kinase; Hybridization, in situ; Brain; Goat (Piosik, P.A. (40) 240)

MEF2; Cerebellum; Granule cell; Differentiation; Cloning (Lin, X. (42) 307)

Midbrain; Dopaminergic neuron; MPTP; Western blot; Immunocytochemistry; Neurodegeneration; Calbindin-D_{28k} (Ng, M.C. (36) 329)

Neurofilament; Transgenic mouse; Animal model; Memory; Morris water maze; Alzheimer's disease (Haroutunian, V. (42) 62)

Stimulus-transcription coupling; Cortico-striatal projection; Topographic organization; Caudal striatum; Lateral amygdala (Arnauld, E. (41) 27)

Tachykinin NK1 receptor; Dorsal root ganglion; Gene expression; Reverse transcription-polymerase chain reaction; Messenger ribonucleic acid; CNS (Andoh, T. (35) 329)

Voltage-gated sodium channel; β_1-Subunit; *Quivering*; Neuromuscular disease; Chromosome 7 (Grosson, C.L.S. (42) 222)

cDNA; Leucine-rich repeat; Nervous system; Adhesion molecule; Receptor (Taniguchi, H. (36) 45)

p-MPPI
5-HT_{1A} receptors; 5-HT_{1A} mRNA; EEDQ; Hybridization, in situ; Autoradiography; Receptor regulation (Raghupathi, R.K. (38) 233)

MPTP
Dopamine D_2 receptor; Hybridization, in situ; Monkey; Parkinson's disease; L-DOPA; Dyskinesia (Herrero, M.T. (42) 149)

Glutamate decarboxylase; Putamen; Monkey; Parkinson's disease; Hybridization histochemistry, in-situ (Soghomonian, J.-J. (39) 237)

Mouse; Midbrain; Dopaminergic neuron; Western blot; Immunocytochemistry; Neurodegeneration; Calbindin-D_{28k} (Ng, M.C. (36) 329)

Multigene family
Neuron-specific expression; D4S234; m234; p1A75; p19; Evolutionary conservation; Golgi apparatus; Nuclear localization (Carlock, L. (42) 202)

Multiple antigenic peptide
Site specific peptide; Polymerase chain reaction; Immunocytochemistry; 5,7-Dihydroxytryptamine; Fusion protein; Dorsal raphe (Zhou, F.C. (43) 267)

Murine central nervous system
V-1 protein; cdc10/SWI6 motif; Gene expression; Cellular localization; *pcd* mutant mice (Fujigasaki, H. (40) 203)

Muscarinic acetylcholine receptor
Tyrosine hydroxylase; Rat pheochromocytoma cell; Gene regulation; Cyclic AMP response element; AP1 element (Chen, Y. (40) 42)

Muscarinic receptor
SH-SY5Y cell; Calcium; Store depletion; Calcium entry; SKF 96365; Fura-2 (Grudt, T.J. (36) 93)

Carbachol; c-*fos*; Oligodendrocytes; PKC inhibitors; Phorbol esters (Cohen, R.I. (43) 193)

Mutation mapping
Tottering; Purkinje cell degeneration; Nervous; Neurological mutation; Simple sequence length polymorphism (Campbell, D.B. (37) 79)

c-Myc
Bcl-2; Bax; Fos; Jun; Apoptosis; Cell death; Ionizing radiation; Development; Nervous system (Ferrer, I. (38) 91)

Myelin
Antisense; RNA; Oligodendrocyte; Transgenic strategy; Myelin oligodendrocyte glycoprotein (MOG) (Jaquet, V. (43) 333)

DM20; Proteolipid protein; Gene expression; Brain development; Trout (Tang, S. (41) 134)

Immunohistochemistry; Oligodendrocytes; Schwann cells (Moore, C. (37) 74)

Myenteric plexus
$GABA_A$ receptor; Enteric nervous system; Hybridization, in-situ; Reverse transcription–polymerase chain reaction; γ-Aminobutyric acid; Rat (Zeiter, D.K. (39) 241)

N

NADPH-diaphorase histochemistry
Neuronal nitric oxide synthase; Hybridisation, in-situ; Alzheimer's disease; Excitotoxicity; Hippocampus; Cerebral cortex (Norris, P.J. (41) 36)

Naloxone
Morphine; Withdrawal; Preproenkephalin mRNA; Periaqueductal gray; Hybridization, in situ; Rat (Fukunaga, Y. (42) 128)

Na^+-*myo*-inositol cotransporter
Osmolyte; Hypernatremia; Hybridization, in-situ; Cerebellum (Minami, Y. (40) 64)

Na^+/*myo*-inositol cotransporter
In situ hybridization; Hypertonicity; Rat; Retina (Morimura, H. (35) 333)

Inner ear; Rat; In situ hybridization (Minami, Y. (35) 319)

Na^+/nucleoside cotransport
RT-PCR; Nucleoside transport; Rat brain; Adenosine; Adenosine transport (Anderson, C.M. (42) 358)

Natural polyamines
Spermidine/spermine N^1-acetyltransferase; Putrescine; Spermidine; Cell death; Cerebral ischemia; In situ hybridization; Rat (Zoli, M. (38) 122)

Necrosis
Clusterin; Hypoxia ischemia; Selective neuronal death; Programmed cell death (Walton, M. (39) 137)

Neonatal rat
Neurotrophic; Hybridization histochemistry, in situ; Visceral sensory neuron; Vagus nerve; Oligonucleotide (Zhuo, H. (38) 63)

Neostriatum
NMDA receptor; Interneuron; Somatostatin; Choline acetyltransferase; GABAergic (Standaert, D.G. (42) 89)

Nerve crush
Phosphatidylinositol 3-kinase; Hypoglossal nerve; Hybridization, in situ (Ito, Y. (37) 329)

Nerve growth factor
AP-1; cAMP; 12-*O*-Tetradecanoyl phorbol-13-acetate; Intracellular Ca^{2+}; mRNA stability (Colangelo, A.M. (35) 1)

Alzheimer's disease; Gene expression (Neve, R.L. (39) 185)

Blood-brain barrier; Blood-nerve barrier; Permeability coefficient-surface area product; Residual brain/endoneurium plasma volume; Neurotrophic factor; Ciliary neurotrophic factor; Neurotrophin-3; Brain-derived neurotrophic factor (Poduslo, J.F. (36) 280)

Brain-derived neurotrophic factor; Neurotrophin 3; Neurotrophin 4/5; *trk*A; *trk*B; *trk*C; $p75^{LNGFR}$; RT-PCR (Suter-Crazzolara, C. (43) 351)

Gene transfer; Cationic lipid; Neurofilament; Septo-hippocampal system; Cell culture (Yang, K. (43) 13)

Heat shock protein; Programmed cell death; Thermal stress; Trigeminal ganglion; Sensory neuron; Protein synthesis (Wyatt, S. (39) 52)

Neurotrophic factor; Basal forebrain; Retrograde transport; Neurodegeneration; Dot blots; ELISA (Fahnestock, M. (42) 175)

Promoter; Transcription; Neurotrophin; Polymerase chain reaction; Gene regulation (Racke, M.M. (41) 192)

Substance P; Preprotachykinin mRNA; trkA mRNA; Diabetic neuropathy; Inflammation (Garrett, N.E. (42) 272)

Nerve injury
Growth factor; Cytokine; Hypoglossal; Rat (Morita, N. (42) 263)

Nerve regeneration
Neuroblastoma; ACTH; cAMP; Melanocortin; G_s-coupled receptor (Adan, R.A.H. (36) 37)

Nerve terminal
Cigarette smoke; cGMP; Nitric oxide; Free radical; Synaptosome; Cerebral cortex; Rat (Kamisaki, Y. (42) 39)

Nervous
Tottering; Purkinje cell degeneration; Neurological mutation; Mutation mapping; Simple sequence length polymorphism (Campbell, D.B. (37) 79)

Nervous system
Bcl-2; Bax; c-Myc; Fos; Jun; Apoptosis; Cell death; Ionizing radiation; Development (Ferrer, I. (38) 91)

Creatine kinase; Cerebellum; Hippocampus; Hypothalamus; Cortex; Brain stem; Spinal cord; Olfactory bulb; Striatum; Thalamus; Gender; Sex; Interleukin; Cytokine (Ilyin, S.E. (41) 50)

Heat-shock protein; Protein synthesis; Astrocyte; Neuron; Brain injury (Nishimura, R.N. (36) 227)

Interleukin; Cytokine; Growth factor; Neuroimmunology; Immune system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Midbrain; Feeding; Food intake; mRNA; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

Parathyroid hormone/parathyroid hormone-related peptide receptor; Human brain; Cerebellum; SK-N-MC cell line (Eggenberger, M. (36) 127)

cDNA; Leucine-rich repeat; Mouse; Adhesion molecule; Receptor (Taniguchi, H. (36) 45)

Nervus terminalis
Fish; Luteinizing hormone-releasing hormone; Midbrain; Preoptic nucleus; Pituitary (Parhar, I.S. (41) 216)

N-ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline
5-HT_{2A} receptor; 5-HT_{2A} mRNA; Hybridization, in-situ; Autoradiography; Receptor regulation (Raghupathi, R.K. (39) 198)

Neural cell adhesion molecule
L1; Neural regeneration; Gene therapy; Herpes simplex virus; Astrocytes; Cerebellar granule cells (Yazaki, T. (43) 311)

Neural regeneration
L1; Neural cell adhesion molecule; Gene therapy; Herpes simplex virus; Astrocytes; Cerebellar granule cells (Yazaki, T. (43) 311)

Neural retina
Glutamine synthetase; Glucocorticoid receptor; Neuronal cell death (Gorovits, R. (43) 321)

Neurite extension
NOR-1; Orphan nuclear receptor; Antisense oligonucleotide; Fetal brain; Differentiation (Ohkura, N. (35) 309)

Neurite outgrowth
Tyrosine phosphorylation; Laminin; Actin; Focal adhesion kinase; Paxillin; Cytoskeleton (Leventhal, P.S. (43) 338)

Neuritic plaque
GAP-43; Cerebellum; Alzheimer's disease; Neurofibrillary tangle; mRNA levels; Diffuse plaque (Cheetham, J.E. (36) 145)

Neuritogenesis
α-Tubulin; Gene isotype; Cerebellum; Granule cell; Neuronal culture; In situ hybridization (Przyborski, S.A. (36) 179)

Neuroanatomy
α-Bungarotoxin; Nicotinic receptor; Genetics; Hybridization, in-situ (Marks, M.J. (39) 207)

Neuroblastoma
ACTH; Nerve regeneration; cAMP; Melanocortin; G_s-coupled receptor (Adan, R.A.H. (36) 37)

Cyclic AMP; Staurosporine; Synapsin I; Dopamine β-hydroxylase; Gene expression (Sasaki, K. (40) 157)

MAP kinase; Neuron specificity; Neuronal development; Stress-activated protein kinase β; Synaptogenesis (Martin, J.H. (35) 47)

Protein kinase C; Isoforms; Cell proliferation; Calphostin C; H7 (Cabedo, H. (37) 125)

Neurodegeneration
Bcl-2; Bax; A1; Two hybrid system; Structural analysis (Kurschner, C. (37) 249)

Human; Motor neuron; Lou Gehrig's disease; Amyotrophic lateral sclerosis; Trophic factor; Type-I IGF receptor; Type-II IGF receptor; Clinical application (Doré, S. (41) 128)

Mouse; Midbrain; Dopaminergic neuron; MPTP; Western blot; Immunocytochemistry; Calbindin-D_{28k} (Ng, M.C. (36) 329)

Nerve growth factor; Neurotrophic factor; Basal forebrain; Retrograde transport; Dot blots; ELISA (Fahnestock, M. (42) 175)

Neurotrophin; Human brain; Hippocampus; Astrocyte; Downs syndrome; Senile plaque (Connor, B. (42) 1)

Neurodegenerative disease
Glutamate metabolism; Northern blot analysis; Neurotransmission; hGLT-1; hGluT-1; hEAAC1 (Nakayama, T. (36) 189)

Neuroepithelium
Telencephalon; Gene expression; Winged-helix; Fork head (Li, H. (37) 96)

Neurofibrillary degeneration
Alzheimer disease; Microtubule associated protein; Microtubules; Paired helical filaments; Protein phosphatases (Wang, J.-Z. (38) 200)

Alzheimer's disease; Paired helical filament; Phosphorylation-dependent monoclonal antibody; Tau protein (Buée-Scherrer, V. (39) 79)

Neurofibrillary tangle
GAP-43; Cerebellum; Alzheimer's disease; mRNA levels; Diffuse plaque; Neuritic plaque (Cheetham, J.E. (36) 145)

Neurofilament
Gene transfer; Cationic lipid; Nerve growth factor; Septo-hippocampal system; Cell culture (Yang, K. (43) 13)

Mouse; Transgenic mouse; Animal model; Memory; Morris water maze; Alzheimer's disease (Haroutunian, V. (42) 62)

Single cell RT-PCR; Sensory neuron; p75; Neurotrophin receptor (Moshnyakov, M. (43) 141)

Neurofilament overexpression
Choline acetyltransferase; Spinal muscular atrophy of childhood; Motoneuron development; mRNA stabilization; Neuromuscular diseases; RT-PCR; Transcriptional regulation (Pernas-Alonso, R. (38) 267)

Neurohypophysis
Hypothalamus; Oxytocin; Carbon monoxide; Hemin; ZnPP9 (Kostoglou-Athanassiou, I. (42) 301)

Neuroimmunology
Interleukin; Cytokine; Growth factor; Immune system; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Midbrain; Feeding; Food intake; mRNA; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

Neurokinin A
6-Hydroxydopamine; Dopamine; Dynorphin A(1–8); GBR-12909; Preprotachykinin; Prodynorphin; Substance P; Cyclophilin (Sivam, S.P. (35) 197)

Neuroleptic
Caudate-putamen; Dopamine; Peptide regulation; Hybridization, in situ (Zahm, D.S. (42) 71)

Neurological mutation
Tottering; Purkinje cell degeneration; Nervous; Mutation mapping; Simple sequence length polymorphism (Campbell, D.B. (37) 79)

Neuromelanin
Dopamine transporter; Synaptic vesicle amine transporter; In situ hybridization; Parkinson's disease (Harrington, K.A. (36) 157)

Neuromodulation
Lymnaea inhibitory peptide; Amino acid sequencing; Edman degradation; Mass spectrometry (Li, K.W. (37) 267)

Neuromuscular disease
Voltage-gated sodium channel; β_1-Subunit; Mouse; *Quivering*; Chromosome 7 (Grosson, C.L.S. (42) 222)

Choline acetyltransferase; Spinal muscular atrophy of childhood; Motoneuron development; mRNA stabilization; Neurofilament overexpression; RT-PCR; Transcriptional regulation (Pernas-Alonso, R. (38) 267)

Neuron
Calcium; Neurotoxicity; Glutamate; Cell death; Herpes; Parvalbumin; Cell culture (Hartley, D.M. (40) 285)

Heat-shock protein; Protein synthesis; Nervous system; Astrocyte; Brain injury (Nishimura, R.N. (36) 227)

Ifenprodil; *N*-methyl-D-aspartate; Cell culture; Electrophysiology; Receptor subtype; Receptor expression (Priestley, T. (40) 271)

Insulin-regulatable glucose transporter; GLUT4; Glucose utilization; Brain metabolism; Immunocytochemistry; Reverse transcription-polymerase chain reaction (RT-PCR) (Leloup, C. (38) 45)

Orphan nuclear receptor; Transcription factor; Postnatal development (Sashihara, S. (42) 109)

Protein tyrosine phosphatase; Oligodendrocyte; PRL-1; Transient forebrain ischemia; Cerebral cortex (Takano, S. (40) 105)

Neuronal cell death
Neural retina; Glutamine synthetase; Glucocorticoid receptor (Gorovits, R. (43) 321)

Neuronal cell line
$GABA_A$ receptor; Messenger RNA; Benzodiazepine; Gamma-2 subunit; Voltage clamp (Reynolds, J.N. (35) 11)

Neuronal culture
α-Tubulin; Gene isotype; Cerebellum; Granule cell; Neuritogenesis; In situ hybridization (Przyborski, S.A. (36) 179)

Transfection; Hippocampus; Liposomes; Betagalactosidase (Kaech, S. (35) 344)

Neuronal death
In situ hybridization; Immediate early gene; Hippocampus; Signal transduction (Kamme, F. (43) 51)

Neuronal development
MAP kinase; Neuron specificity; Stress-activated protein kinase β; Synaptogenesis; Neuroblastoma (Martin, J.H. (35) 47)

Neuronal differentiation
Basic helix-loop-helix; Transcription factor; In situ hybridization; Gene expression; Cerebellum (Haire, M.F. (36) 174)

RNA binding protein; Neurospecific expression; Alternative splicing; Cell lines P19 and PC12; mRNA; cDNA cloning (Steller, U. (35) 285)

Transcription factor; Homeodomain; Zinc finger; Gene expression; Hybridization, in situ; RNase protection assay (Watanabe, M. (42) 344)

Neuronal interaction
Dopamine; Reverse transcriptase-PCR; Tyrosine hydroxylase; Synaptic vesicle monoamine transporter (Perrone-Capano, C. (39) 160)

Neuronal nitric oxide synthase
NADPH-diaphorase histochemistry; Hybridisation, in-situ; Alzheimer's disease; Excitotoxicity; Hippocampus; Cerebral cortex (Norris, P.J. (41) 36)

Neuron–glia interaction
Astrocyte; Cell culture; Gene regulation; AP-1 DNA binding activity (Pennypacker, K.R. (37) 224)

Astrocyte; Glucocorticoid; Glutamate metabolism; GDH promoter (Hardin-Pouzet, H. (37) 324)

Neuron regeneration
α-CGRP; β-CGRP; Gene expression; In situ hybridization; Axotomy; Motoneuron; Neurotrophic factor; Hypoglossal nucleus; Rat (Sarasa, M. (35) 269)

Neurons
Astrocytes; Tyrosine kinase; Protein phosphorylation (Burgaya, F. (37) 63)

Gene therapy; Viral vector; HSV; LacZ; Alkaline phosphatase (New, K.C. (37) 317)

Neuropeptide Y; Calcitonin gene-related peptide; Microglia; Proteinase; Degradation; Plasminogen activator; uPA; tPA (Ludwig, R. (37) 181)

Tetradecanoylphorbol acetate; In situ hybridization; Northern blot hybridization; Immunocytochemistry; Development; Astrocytes (Just, L. (35) 157)

Neuron-specific expression
D4S234; m234; p1A75; p19; Multigene family; Evolutionary conservation; Golgi apparatus; Nuclear localization (Carlock, L. (42) 202)

Neuron specificity
MAP kinase; Neuronal development; Stress-activated protein kinase β; Synaptogenesis; Neuroblastoma (Martin, J.H. (35) 47)

Neuropathy
Diabetes; Regeneration; Neurotrophin; Growth associated protein-43; Substance P (Maeda, K. (37) 166)

Neuropeptide
Axotomy; Brain; Cell culture; Histochemistry; β-Galactosidase; Mouse; Superior cervical ganglion; Transgene; Vasoactive intestinal peptide (Tsuruda, L.M. (42) 181)

BDNF; Neurotrophic factor; Neurotrophin; Neuropeptide Y (Takei, N. (37) 283)

Leech; LORF; Osmoregulation (Salzet, M. (43) 301)

Phorbol ester; Post-transcriptional regulation; Vasoactive intestinal polypeptide; 3′-Untranslated region (Tolentino, P.J. (39) 89)

Transcription factor; POU; Hypothalamus; Gene regulation; In situ hybridization; Autoregulation (Malik, K.F. (38) 209)

Neuropeptide Y
BDNF; Neurotrophic factor; Neurotrophin; Neuropeptide (Takei, N. (37) 283)

Calcitonin gene-related peptide; Neurons; Microglia; Proteinase; Degradation; Plasminogen activator; uPA; tPA (Ludwig, R. (37) 181)

Galanin; Tyrosine hydroxylase; Locus coeruleus; Olfactory bulb; In situ hybridization; Messenger RNA; Trophic factors (Holmes, P.V. (36) 184)

In situ hybridization histochemistry; Arcuate nucleus; Spontaneously hypertensive rat; Y_2 receptor; Nucleus tractus solitarius; Autoradiography (McLean, K.J. (35) 249)

Zucker rat; Galanin; High fat diet; Macronutrients; Gene expression (Mercer, J.G. (43) 202)

Neuroprotection
Hypoxic-ischemia; Programmed cell death; cAMP; Jun (Walton, M. (43) 21)

Neurospecific expression
RNA binding protein; Neuronal differentiation; Alternative splicing; Cell lines P19 and PC12; mRNA; cDNA cloning (Steller, U. (35) 285)

Neurotensin
Substantia nigra pars compacta; Dopaminergic neuron; Whole-cell voltage-clamp recording; Single-cell RT-PCR assay; PTX-insensitive G-protein (Wang, H.-L. (36) 29)

Neurotoxicity
AP-1 transcription factor; Methamphetamine (Sheng, P. (42) 171)

Calcium; Glutamate; Cell death; Herpes; Parvalbumin; Neuron; Cell culture (Hartley, D.M. (40) 285)

Haloperidol and metabolites; Tardive dyskinesia; Single photon emission computed tomography; [^{123}I]Iodobenzamide; Dopamine receptor binding; Baboon; 4-(4-Chlorophenyl)-[4-(fluorophenyl)-4-oxobutyl]-1,2,3,6-tetrahydropyridine (Van der Schyf, C.J. (43) 251)

Neurotransmission
Glutamate metabolism; Northern blot analysis; Neurodegenerative disease; hGLT-1; hGluT-1; hEAAC1 (Nakayama, T. (36) 189)

Neurotransmitter receptor
Postsynaptic density; Actin; Cytoskeleton; CaM kinase II; Synaptic junction (Adam, G. (43) 246)

Rat brain; Primer extension; Sp1; AP2; Luciferase assay (Maeno, H. (40) 97)

Neurotransmitter release
CaM kinase II; Synaptic vesicles; Synapsin I (Benfenati, F. (40) 297)

Neurotransmitter transporter
Antidepressant; Cocaine; Ionic dependences; Raphe nuclei; Lipofection (Chang, A.S. (43) 185)

Neurotransporters
Genetically epilepsy-prone rat; mRNA; Tyrosine hydroxylase; In situ; Tryptophan hydroxylase; Norepinephrine transporter; Dopamine transporter; Serotonin transporter (Szot, P. (43) 233)

Neurotrophic
Hybridization histochemistry, in situ; Visceral sensory neuron; Vagus nerve; Neonatal rat; Oligonucleotide (Zhuo, H. (38) 63)

Neurotrophic activity
Astroglia; Central nervous system; Extracellular matrix; Proteoglycan; Rat (Koops, A. (41) 65)

Neurotrophic factor
α-CGRP; β-CGRP; Gene expression; In situ hybridization; Axotomy; Neuron regeneration; Motoneuron; Hypoglossal nucleus; Rat (Sarasa, M. (35) 269)

BDNF; Neurotrophin; Neuropeptide Y; Neuropeptide (Takei, N. (37) 283)

Blood-brain barrier; Blood-nerve barrier; Permeability coefficient-surface area product; Residual brain/endoneurium plasma volume; Ciliary neurotrophic factor; Nerve growth factor; Neurotrophin-3; Brain-derived neurotrophic factor (Poduslo, J.F. (36) 280)

Nerve growth factor; Basal forebrain; Retrograde transport; Neurodegeneration; Dot blots; ELISA (Fahnestock, M. (42) 175)

Neurotrophin 3
Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin 4/5; *trk*A; *trk*B; *trk*C; $p75^{LNGFR}$; RT-PCR (Suter-Crazzolara, C. (43) 351)

Neurotrophin 4/5
Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin 3; *trk*A; *trk*B; *trk*C; $p75^{LNGFR}$; RT-PCR (Suter-Crazzolara, C. (43) 351)

Neurotrophin-3
Blood-brain barrier; Blood-nerve barrier; Permeability coefficient-surface area product; Residual brain/endoneurium plasma volume; Neurotrophic factor; Ciliary neurotrophic factor; Nerve growth factor; Brain-derived neurotrophic factor (Poduslo, J.F. (36) 280)

Neurotrophin-4
TrkB; Hippocampus; Neurotrophin; Synaptic transmission; Brain-derived neurotrophic factor (Levine, E.S. (38) 300)

Neurotrophin
BDNF; Neurotrophic factor; Neuropeptide Y; Neuropeptide (Takei, N. (37) 283)

Diabetes; Neuropathy; Regeneration; Growth associated protein-43; Substance P (Maeda, K. (37) 166)

Human brain; Hippocampus; Neurodegeneration; Astrocyte; Downs syndrome; Senile plaque (Connor, B. (42) 1)

Nerve growth factor; Promoter; Transcription; Polymerase chain reaction; Gene regulation (Racke, M.M. (41) 192)

Synaptic plasticity; Brain-derived neurotrophic factor; trkB; Postsynaptic; Receptor protein tyrosine kinase (Wu, K. (43) 286)

TrkB; Hippocampus; Synaptic transmission; Brain-derived neurotrophic factor; Neurotrophin-4 (Levine, E.S. (38) 300)

Neurotrophin receptor
Single cell RT-PCR; Sensory neuron; p75; Neurofilament (Moshnyakov, M. (43) 141)

Trk-B; Western blot; Cortex; Alcohol; Protein (Baek, J.-K. (40) 161)

Neurotrophins
Forebrain ischemia; Hippocampus; Brain damage; Rat (Kokaia, Z. (38) 139)

NF-κB
Alzheimer's disease; β-Amyloid precursor protein; cGMP; Tumor necrosis factor; I-κBα/MAD3; Calcium; Free radical; Antisense (Barger, S.W. (40) 116)

IκB; Long-term potentiation; Hippocampus; Protein kinase C; Rat; Transcription factors; mRNA (Meberg, P.J. (38) 179)

NGF
DNA binding; Development; Hippocampus; Long-term potentiation; Granule cell; GAP-43 (Kinney, W.R. (38) 25)

NGFI-A
Focal ischemia; NGFI-B; BDNF; Immediate early gene; Hybridization, in situ (Lin, T.-N. (43) 149)

Spatial memory; Hippocampus; Water maze; Gene expression; Glucocorticoid receptor (Yau, J.L.W. (42) 354)

NGFI-B
Focal ischemia; NGFI-A; BDNF; Immediate early gene; Hybridization, in situ (Lin, T.-N. (43) 149)

Nurr1; In-situ hybridization; Immediate early gene; Transcription factor; Orphan receptor (Zetterström, R.H. (41) 111)

***N*-glycosylation**
Baculovirus; *Trichoplusia ni* insect cells; NMDA receptor; Overexpression; Histidine tag; Protein purification; 5,7-[3-^{3}H]Dichlorokynurenate binding (Sydow, S. (41) 228)

Nicotinic receptor
α-Bungarotoxin; Neuroanatomy; Genetics; Hybridization, in-situ (Marks, M.J. (39) 207)

α-Bungarotoxin; Nicotinic receptor subunit; Genetics; Seizure; Restriction fragment length polymorphism (Stitzel, J.A. (43) 30)

Nicotinic receptor subunit
α-Bungarotoxin; Nicotinic receptor; Genetics; Seizure; Restriction fragment length polymorphism (Stitzel, J.A. (43) 30)

Nitric oxide
L-Arginine; *N*-L-Arginine-methyl ester; Calcium/calmodulin-dependent phosphorylation; Major postsynaptic density protein; Nitric oxide synthase; Sodium nitroprusside; Synapse (Wu, K. (40) 22)

Cigarette smoke; cGMP; Free radical; Synaptosome; Nerve terminal; Cerebral cortex; Rat (Kamisaki, Y. (42) 39)

Nitric oxide synthase; Chronic hypoxia; Nodose ganglion; Cerebellum; Cardio-respiratory system (Prabhakar, N.R. (43) 341)

Nitric oxide synthase; GTP cyclohydrolase I; Tetrahydrobiopterin; Astrocyte; Cytokine; Lipopolysaccharide (D'Sa, C. (41) 105)

Nitric oxide synthase
L-Arginine; *N*-L-Arginine-methyl ester; Calcium/calmodulin-dependent phosphorylation; Major postsynaptic density protein; Nitric oxide; Sodium nitroprusside; Synapse (Wu, K. (40) 22)

Glutamate; Apoptosis; NMDA; mRNA; Granule cell (Tascedda, F. (40) 171)

Nitric oxide; Chronic hypoxia; Nodose ganglion; Cerebellum; Cardio-respiratory system (Prabhakar, N.R. (43) 341)

Nitric oxide; GTP cyclohydrolase I; Tetrahydrobiopterin; Astrocyte; Cytokine; Lipopolysaccharide (D'Sa, C. (41) 105)

Nitrix oxide
γ-Aminobutyric acid; Release mechanism (Ohkuma, S. (36) 137)

NLRR-1
Leucine-rich repeat protein; LRR; NLRR-2 (Taguchi, A. (35) 31)

NLRR-2
Leucine-rich repeat protein; LRR; NLRR-1 (Taguchi, A. (35) 31)

NLRR-3
Leucine-rich repeat protein; Cerebral cortex; Brain injury; Hybridization, in-situ (Ishii, N. (40) 148)

NMDA
Glutamate; Nitric oxide synthase; Apoptosis; mRNA; Granule cell (Tascedda, F. (40) 171)

NMDAR1
N-methyl-D-aspartate; Glutamate receptor; Splicing; Oocyte; Voltage-clamp (Koltchine, V.V. (39) 99)

NMDA receptor
6-Hydroxydopamine lesion; MK-801; GAD67 mRNA; Striatum; Hybridization, in situ (Hajji, M.D. (43) 219)

Baculovirus; *Trichoplusia ni* insect cells; Overexpression; Histidine tag; *N*-glycosylation; Protein purification; 5,7-[3-^{3}H]Dichlorokynurenate binding (Sydow, S. (41) 228)

Glycine; Glycine transporter; Retina; mRNA expression; Ischemia (Goebel, D.J. (40) 139)

In situ hybridization; AMPA receptor; Electroconvulsive stimulation; Long-term potentiation; Memory (Naylor, P. (35) 349)

Kindling; Epilepsy; Alternative splicing; Plasticity; Hybridization, in-situ (Kraus, J.E. (41) 97)

Neostriatum; Interneuron; Somatostatin; Choline acetyltransferase; GABAergic (Standaert, D.G. (42) 89)

NMDA receptor antagonist
Chronic ethanol; mRNA levels; Upregulation (Hu, X.-J. (36) 211)

NMDA receptor channel
ε3 subunit; Gene structure; Chromosomal localization (Nagasawa, M. (36) 1)

NMDA receptors
NR2C; Distribution; Cloning, in situ; Human (Lin, Y.J. (43) 57)

NMDA receptor subunit
Ethanol physical dependence; Hybridization, in-situ; Immunoreactivity; Subunit specific antibody (Snell, L.D. (40) 71)

***N*-methyl-D-aspartate**
Glutamate receptor; NMDAR1; Splicing; Oocyte; Voltage-clamp (Koltchine, V.V. (39) 99)

Ifenprodil; Neuron; Cell culture; Electrophysiology; Receptor subtype; Receptor expression (Priestley, T. (40) 271)

Nodose ganglion
Nitric oxide synthase; Nitric oxide; Chronic hypoxia; Cerebellum; Cardio-respiratory system (Prabhakar, N.R. (43) 341)

Non-androgenic testicular factors
Somatostatin; GHRH; Hypothalamus (Lago, F. (35) 220)

Non-radiolabeled riboprobes
Cholinergic neurons; Hydridization histochemistry, in situ; Acetylcholine; Vesicular transporter; Rat central nervous system (Roghani, A. (43) 65)

NOR-1
Orphan nuclear receptor; Antisense oligonucleotide; Fetal brain; Neurite extension; Differentiation (Ohkura, N. (35) 309)

Noradrenaline
Glycogen; Astrocyte; Energy metabolism; Vasoactive intestinal peptide; Gene expression; cDNA (Pellegri, G. (38) 191)

α_2-Noradrenergic receptor
Amino acid imbalance; Rat; Anorexia; Norepinephrine; Feeding; Anterior piriform cortex; Hypothalamus (Gietzen, D.W. (35) 41)

Norepinephrine
Amino acid imbalance; Rat; Anorexia; α_2-Noradrenergic receptor; Feeding; Anterior piriform cortex; Hypothalamus (Gietzen, D.W. (35) 41)

Norepinephrine transporter
Genetically epilepsy-prone rat; mRNA; Neurotransporters; Tyrosine hydroxylase; In situ; Tryptophan hydroxylase; Dopamine transporter; Serotonin transporter (Szot, P. (43) 233)

Northern blot
Basic fibroblast growth factor; Cerebral ischemia; Cerebral infarction; Rat; In situ hybridization; Immunohistochemistry (Speliotes, E.K. (39) 31)

TNF-α; mRNA; Cortex; Injury; Fluid percussion (Fan, L. (36) 287)

Northern blot analysis
Glutamate metabolism; Neurotransmission; Neurodegenerative disease; hGLT-1; hGluT-1; hEAAC1 (Nakayama, T. (36) 189)

Hybridization, in situ; Astrocyte; Kainic acid; mRNA (Owada, Y. (42) 156)

Northern blot hybridization
Tetradecanoylphorbol acetate; In situ hybridization; Immunocytochemistry; Development; Neurons; Astrocytes (Just, L. (35) 157)

NR1
N-Methyl-D-aspartate receptor; Glutamate-binding protein; Ethanol; Cerebellar granule cell; NR2A; Antisense oligonucleotide (Hoffman, P.L. (39) 167)

NR2A
N-Methyl-D-aspartate receptor; Glutamate-binding protein; Ethanol; Cerebellar granule cell; NR1; Antisense oligonucleotide (Hoffman, P.L. (39) 167)

NR2C
NMDA receptors; Distribution; Cloning, in situ; Human (Lin, Y.J. (43) 57)

Nuclear localization
Neuron-specific expression; D4S234; m234; p1A75; p19; Multigene family; Evolutionary conservation; Golgi apparatus (Carlock, L. (42) 202)

Nucleoside transport
Na^+/nucleoside cotransport; RT-PCR; Rat brain; Adenosine; Adenosine transport (Anderson, C.M. (42) 358)

Nucleotide sequence
Calcium-binding protein; Olfactory tissue; S100; Teleost; cDNA library (Porta, A.R. (41) 81)

Nucleus
Axotomy; Avulsion; Spinal cord; Ventral horn; GAP-43; Synaptic protein; Intron; In situ hybridization; mRNA; Gene; Rat; Chicken (Jacobsson, G. (37) 49)

Fibroblast growth factor receptors; Astrocyte; Human (Stachowiak, M.K. (38) 161)

Nucleus accumbens
Brain-derived neurotrophic factor; 1-Methyl-4-phenylpyridinium; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Reverse transcriptase–polymerase chain reaction; Substantia nigra; Ventral tegmental area; Striatum; Gene expression (Hung, H.-C. (41) 16)

Nucleus ambiguus
$GABA_A$ receptor; Nucleus of the solitary tract; Pseudorabies virus; Hybridization, in-situ; Immunohistochemistry; Esophageal peristalsis (Broussard, D.L. (40) 143)

Nucleus of the solitary tract
$GABA_A$ receptor; Nucleus ambiguus; Pseudorabies virus; Hybridization, in-situ; Immunohistochemistry; Esophageal peristalsis (Broussard, D.L. (40) 143)

Nucleus tractus solitarius
Neuropeptide Y; In situ hybridization histochemistry; Arcuate nucleus; Spontaneously hypertensive rat; Y_2 receptor; Autoradiography (McLean, K.J. (35) 249)

Tyrosine hydroxylase mRNA; Tyrosine hydroxylase protein; Hypoxia; A2C2 neuron; Chemoreceptor pathway; Long-term hypoxia (Dumas, S. (40) 188)

Nurr1
NGFI-B; In-situ hybridization; Immediate early gene; Transcription factor; Orphan receptor (Zetterström, R.H. (41) 111)

Nycthemeral rhythm
Tryptophan hydroxylase mRNA; Rat pineal gland; Hybridization, in-situ (Besançon, R. (40) 136)

O

6-OHDA
Dopamine; Serotonin; C-*fos*; Immunohistochemistry; 5-HT_{1A} receptors; 5-HT_2 receptors; 5-HT_3 receptors; D_1 receptors; Agonists; Antagonists; Striatum; Rat (Rouillard, C. (37) 105)

Olfactory bulb
Creatine kinase; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Brain stem; Spinal cord; Striatum; Thalamus; Gender; Sex; Interleukin; Cytokine (Ilyin, S.E. (41) 50)

Galanin; Neuropeptide Y; Tyrosine hydroxylase; Locus coeruleus; In situ hybridization; Messenger RNA; Trophic factors (Holmes, P.V. (36) 184)

Olfactory marker protein
Adenoviral vector; Gene transfer, in-vivo; Olfactory system; B-50/GAP-43 (Holtmaat, A.J.G.D. (41) 148)

Olfactory system
Adenoviral vector; Gene transfer, in-vivo; Olfactory marker protein; B-50/GAP-43 (Holtmaat, A.J.G.D. (41) 148)

Olfactory tissue
Calcium-binding protein; S100; Teleost; Nucleotide sequence; cDNA library (Porta, A.R. (41) 81)

Olfactory tubercle
Serotonin 5-HT_{1B} receptor; In situ hybridization; γ-Aminobutyric acid; Immunocytochemistry (Cloëz-Tayarani, I. (36) 337)

Oligodendrocyte
Antisense; RNA; Transgenic strategy; Myelin; Myelin oligodendrocyte glycoprotein (MOG) (Jaquet, V. (43) 333)

Protein tyrosine phosphatase; Neuron; PRL-1; Transient forebrain ischemia; Cerebral cortex (Takano, S. (40) 105)

Carbachol; c-*fos*; Muscarinic receptors; PKC inhibitors; Phorbol esters (Cohen, R.I. (43) 193)

Immunohistochemistry; Schwann cells; Myelin (Moore, C. (37) 74)

Oligonucleotide
Neurotrophic; Hybridization histochemistry, in situ; Visceral sensory neuron; Vagus nerve; Neonatal rat (Zhuo, H. (38) 63)

Ontogeny
Regional distribution; $GABA_B$ receptor; GTP analogue; Gpp(NH)p; Rat; Brain; Binding; G-protein (Mathivet, P. (42) 18)

Oocyte
N-methyl-D-aspartate; Glutamate receptor; NMDAR1; Splicing; Voltage-clamp (Koltchine, V.V. (39) 99)

Open-field test
Fyn-deficient mouse; Tyrosine kinase; Src family; Emotionality; Elevated plus-maze; Radial-maze performance; Spatial learning (Miyakawa, T. (37) 145)

Opiate tolerance
Opioid receptor; Hybridization, in-situ; Spinal cord; K^+ channel (Matus-Leibovitch, N. (40) 261)

Opioid
SCH 23390; Sulpiride; In situ hybridization; Striatum; Sensorimotor cortex; Psychostimulant; Immediate early gene; Transcription factors (Daunais, J.B. (35) 237)

Opioid binding cell adhesion molecule
Cos 1 cell; Phosphatidylinositol; Phospholipase C; Transient transfection (Wick, M.J. (36) 322)

Opioid peptide
Retrograde tracing; Fluorogold; Immunocytochemistry; Lesions; Reproduction; Sexual dimorphism (Hoffman, G.E. (36) 201)

Opioid receptor
Opiate tolerance; Hybridization, in-situ; Spinal cord; K^+ channel (Matus-Leibovitch, N. (40) 261)

ROR-C; Endogenous ligand; Allodynia; Spinal cord (Okuda-Ashitaka, E. (43) 96)

Optic nerve
AP-1; Circadian rhythm; Immediate early gene (Bennett, M.R. (42) 140)

Orphan nuclear receptor
NOR-1; Antisense oligonucleotide; Fetal brain; Neurite extension; Differentiation (Ohkura, N. (35) 309)

Transcription factor; Neuron; Postnatal development (Sashihara, S. (42) 109)

Orphan receptor
G-protein-coupled receptor; edg-1; Audiogenic seizure; Localization; Expression (Macrae, A.D. (42) 245)

Nurr1; NGFI-B; In-situ hybridization; Immediate early gene; Transcription factor (Zetterström, R.H. (41) 111)

Osmolyte
Na^+-*myo*-inositol cotransporter; Hypernatremia; Hybridization, in-situ; Cerebellum (Minami, Y. (40) 64)

Osmoregulation
Leech; LORF; Neuropeptide (Salzet, M. (43) 301)

Osmotic stimulation
Hypothalamus; Pituitary; Transgene; Polymerase chain reaction (Burke, Z.D. (42) 287)

Overexpression
Baculovirus; *Trichoplusia ni* insect cells; NMDA receptor; Histidine tag; *N*-glycosylation; Protein purification; 5,7-[3-^{3}H]Dichlorokynurenate binding (Sydow, S. (41) 228)

Oxytocin
Calbindin-D28k; mRNA; Vasopressin; Dehydration; Parturition; Lactation; Rat (Voisin, D.L. (42) 279)

Endotoxin; Choroid plexus; Prostaglandin; Interleukin-1β; c-*fos*; Hypothalamus; Corticotrophin releasing hormone; Vasopressin; Sheep (Vellucci, S.V. (43) 41)

Hypothalamus; Carbon monoxide; Neurohypophysis; Hemin; ZnPP9 (Kostoglou-Athanassiou, I. (42) 301)

P

P75
Vitamin D; Gene regulation; Astrocyte; C6 glioma; Spinal cord (Naveilhan, P. (41) 259)

p19
Neuron-specific expression; D4S234; m234; p1A75; Multigene family; Evolutionary conservation; Golgi apparatus; Nuclear localization (Carlock, L. (42) 202)

p53
Apoptosis; Radiation; Fetal rat brain; Messenger RNA; Fos; JunB; Bax (Borovitskaya, A.E. (35) 19)

p75^{LNGFR}
Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin 3; Neurotrophin 4/5; *trk*A; *trk*B; *trk*C; RT-PCR (Suter-Crazzolara, C. (43) 351)

p75
Single cell RT-PCR; Sensory neuron; Neurotrophin receptor; Neurofilament (Moshnyakov, M. (43) 141)

PACAP
Gonadotropin-releasing hormone; Somatostatin; Gene expression; Hypothalamus (Li, S. (41) 157)

Paired helical filament
Alzheimer's disease; Neurofibrillary degeneration; Phosphorylation-dependent monoclonal antibody; Tau protein (Buée-Scherrer, V. (39) 79)

Alzheimer disease; Microtubule associated protein; Microtubules; Neurofibrillary degeneration; Protein phosphatases (Wang, J.-Z. (38) 200)

Parathyroid hormone / parathyroid hormone-related peptide receptor
Human brain; Cerebellum; SK-N-MC cell line; Nervous system (Eggenberger, M. (36) 127)

Paraventricular nucleus
Corticotropin-releasing factor; Receptor; Stress; Hybridization, in situ (Imaki, T. (38) 166)

Gene expression; AP-1 DNA binding; Fos; Jun; Transcription factor; Hyperosmolality; Supraoptic nucleus (Ying, Z. (39) 109)

Parietal cortex
Plasminogen activator; Urokinase; Urokinase-type plasminogen activator; uPA mRNA localization in the mouse brain; In situ hybridization; Subiculum; Entorhinal cortex (Masos, T. (35) 139)

Parkinson's disease
Dopamine D_2 receptor; Hybridization, in situ; Monkey; MPTP; L-DOPA; Dyskinesia (Herrero, M.T. (42) 149)

Dopamine transporter; Synaptic vesicle amine transporter; In situ hybridization; Neuromelanin (Harrington, K.A. (36) 157)

Dopamine; Tyrosinase; DNA damage (Stokes, A.H. (42) 167)

Glutamate decarboxylase; Putamen; Monkey; MPTP; Hybridization histochemistry, in-situ (Soghomonian, J.-J. (39) 237)

Transplantation; Dopamine transporter; Caudate putamen; Substantia nigra (Fujita, M. (39) 127)

Weaver mutation; Dopamine membrane transporter; Tyrosine hydroxylase; Vesicular monoamine transporter; Hybridization, in situ (Adelbrecht, C. (43) 291)

Partial lesion
Dopamine; Enkephalin; 6-Hydroxydopamine; Messenger RNA; Substance P; Striatum; Tyrosine hydroxylase (Nisenbaum, L.K. (37) 209)

Parturition
Calbindin-D28k; mRNA; Oxytocin; Vasopressin; Dehydration; Lactation; Rat (Voisin, D.L. (42) 279)

Parvalbumin
Calcium; Neurotoxicity; Glutamate; Cell death; Herpes; Neuron; Cell culture (Hartley, D.M. (40) 285)

Paxillin
Tyrosine phosphorylation; Laminin; Neurite outgrowth; Actin; Focal adhesion kinase; Cytoskeleton (Leventhal, P.S. (43) 338)

PC12 cell
Gene regulation; Transcription factor; Immediate-early gene; Hippocampus; Seizure; Lindane; Signal-transcription coupling (Peña de Ortiz, S. (38) 1)

c-Jun; Prodynorphin; Transient transfection; Gel supershift analysis; Gene regulation (Messersmith, D.J. (40) 15)

***pcd* mutant mice**
V-1 protein; cdc10/SWI6 motif; Gene expression; Cellular localization; Murine central nervous system (Fujigasaki, H. (40) 203)

Pentobarbital
mRNA; Caudate putamen; In situ hybridization; Anesthesia; Barbiturate; Sedative; Chloral hydrate (Quiñones-Jenab, V. (35) 297)

Penumbra
Heme oxygenase; Glia; Heat shock protein; Antioxidant; Stroke; Spreading depression; Cerebral ischemia; Translation (Nimura, T. (37) 201)

Peptide regulation
Caudate-putamen; Neuroleptic; Dopamine; Hybridization, in situ (Zahm, D.S. (42) 71)

Periaqueductal gray
Naloxone; Morphine; Withdrawal; Preproenkephalin mRNA; Hybridization, in situ; Rat (Fukunaga, Y. (42) 128)

Peripheral nerve grafting
Immediate early gene; Transcription factor; *bZip* superfamily; CRE-BP1; HB16; TREB7 (Robinson, G.A. (41) 57)

Permeability coefficient-surface area product
Blood-brain barrier; Blood-nerve barrier; Residual brain/endoneurium plasma volume; Neurotrophic factor; Ciliary neurotrophic factor; Nerve growth factor; Neurotrophin-3; Brain-derived neurotrophic factor (Poduslo, J.F. (36) 280)

2-Phenyletylamine
Psychosis; Psychotogenesis; Tryptamine; Schizophrenia; Dopa decarboxylase (Buckland, P.R. (35) 69)

Phorbol ester
GT1 cell; RNA processing; GnRH; Mouse; RNase protection assay (Yeo, T.T.S. (42) 255)

Neuropeptide; Post-transcriptional regulation; Vasoactive intestinal polypeptide; 3′-Untranslated region (Tolentino, P.J. (39) 89)

Carbachol; c-*fos*; Muscarinic receptors; Oligodendrocytes; PKC inhibitors (Cohen, R.I. (43) 193)

Phosphatase
Western blot; Immunocytochemistry; MKP-1; 3CH134; Epilepsy (Gass, P. (41) 74)

Phosphatidylinositol
Cos 1 cell; Opioid binding cell adhesion molecule; Phospholipase C; Transient transfection (Wick, M.J. (36) 322)

Phosphatidylinositol 3-kinase
Nerve crush; Hypoglossal nerve; Hybridization, in situ (Ito, Y. (37) 329)

Phosphodiesterase inhibitor
Transcription factor; cAMP response element; Aging; Brain; Rolipram (Asanuma, M. (41) 210)

Phospholipase C
Cos 1 cell; Opioid binding cell adhesion molecule; Phosphatidylinositol; Transient transfection (Wick, M.J. (36) 322)

Phosphoprotein
GAP-43; Two-hybrid system; Growth cone; Development; Calmodulin; Protein kinase C (Chao, S. (40) 195)

Phosphorylated cAMP/Ca^{2+} response element-binding protein
Calcium-binding protein; Dopamine; Kainic acid; *N*-Methyl-D-aspartic acid; (±)-α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Cytotoxicity (Isaacs, K.R. (36) 114)

Phosphorylation
$GABA_A$ receptor; Protein kinase G; cGMP; *Xenopus* oocyte; Site-directed mutagenesis (Leidenheimer, N.J. (42) 131)

Phosphorylation-dependent monoclonal antibody
Alzheimer's disease; Neurofibrillary degeneration; Paired helical filament; Tau protein (Buée-Scherrer, V. (39) 79)

Photoreceptor
Retina; Circadian; Rhythmic expression; *Xenopus*; Differential display (Green, C.B. (37) 157)

Photosensitivity
Suprachiasmatic nucleus; Circadian rhythm; C-*fos*; Fos-lir; Light stimulus; Testicular activity (Boissin-Agasse, L. (37) 21)

Pineal
Tryptophan hydroxylase; Melatonin; Circadian rhythm; Molecular cloning (Florez, J.C. (42) 25)

Pineal gland
Retina; cDNA cloning; Polymerase chain reaction; Hybridization, in situ; EGF-like repeat (Wang, X. (41) 269)

Pituitary
Adrenalectomy; Lipopolysaccharide; IL-1; Tumor necrosis factor; IL-6; IL-1ra; Spleen; Brain; Mice (Goujon, E. (36) 53)

Fish; Luteinizing hormone-releasing hormone; Nervus terminalis; Midbrain; Preoptic nucleus (Parhar, I.S. (41) 216)

GnRH receptor; Estrogen; Hybridization, in situ (Quiñones-Jenab, V. (38) 243)

Hypothalamus; Transgene; Osmotic stimulation; Polymerase chain reaction (Burke, Z.D. (42) 287)

PKC inhibitors
Carbachol; c-*fos*; Muscarinic receptors; Oligodendrocytes; Phorbol esters (Cohen, R.I. (43) 193)

Plasminogen activator
Neuropeptide Y; Calcitonin gene-related peptide; Neurons; Microglia; Proteinase; Degradation; uPA; tPA (Ludwig, R. (37) 181)

Urokinase; Urokinase-type plasminogen activator; uPA mRNA localization in the mouse brain; In situ hybridization; Subiculum; Entorhinal cortex; Parietal cortex (Masos, T. (35) 139)

Plasticity
Kindling; Epilepsy; NMDA receptor; Alternative splicing; Hybridization, in-situ (Kraus, J.E. (41) 97)

Zif-268; Krox-24; Visual development; Proto-oncogene; Critical period (Kaplan, I.V. (36) 12)

Polymerase chain reaction
Brain; Extracellular matrix; Central nervous system; Reeler mouse; Gene (D'Arcangelo, G. (39) 234)

Fetal neuronal cells; Sodium channel subunits; mRNA expression; α-Scorpion toxin (Lara, A. (37) 116)

Fibroblast growth factor; Fibroblast growth factor receptor; Brain; Development; Hybridization, in situ (Ozawa, K. (41) 279)

Hypothalamus; Pituitary; Transgene; Osmotic stimulation (Burke, Z.D. (42) 287)

Nerve growth factor; Promoter; Transcription; Neurotrophin; Gene regulation (Racke, M.M. (41) 192)

Pineal gland; Retina; cDNA cloning; Hybridization, in situ; EGF-like repeat (Wang, X. (41) 269)

Site specific peptide; Multiple antigenic peptide; Immunocytochemistry; 5,7-Dihydroxytryptamine; Fusion protein; Dorsal raphe (Zhou, F.C. (43) 267)

Tryptophan hydroxylase mRNA; Serotonin transporter mRNA; 5,7-Dihydroxytryptamine; Dorsal raphe nucleus; Dexfenfluramine (Semple-Rowland, S.L. (41) 121)

Post-exercise hypotension
Exercise; Enkephalin; Blood pressure; Hypertension; Rostral ventrolateral medulla (Boone Jr., J.B. (42) 31)

Post-mortem human brain
Amyloid precursor protein; Amyloid precursor-like protein 2; Alzheimer's disease; Solution hybridisation-RNase protection; mRNA (Johnston, J.A. (43) 85)

Postnatal development
Orphan nuclear receptor; Transcription factor; Neuron (Sashihara, S. (42) 109)

Postpartum
Maternal behavior; Steroid receptor; Medial preoptic nucleus; Ventromedial nucleus; Medial amygdala; Bed nucleus of the stria terminalis (Wagner, C.K. (42) 328)

Postsynaptic
Synaptic plasticity; Brain-derived neurotrophic factor; Neurotrophin; trkB; Receptor protein tyrosine kinase (Wu, K. (43) 286)

Postsynaptic density
Actin; Cytoskeleton; Neurotransmitter receptor; CaM kinase II; Synaptic junction (Adam, G. (43) 246)

Synapse; Presynaptic grid; Cortex; Cytoskeleton; Synapse-associated protein; cDNA cloning; Expression screening (Langnaese, K. (42) 118)

Post-transcriptional regulation
$5\text{-}HT_{2C}$ receptor mRNA; 3′ Untranslated region; Brain binding proteins; RNA binding motif (Kao, H.-T. (43) 174)

Neuropeptide; Phorbol ester; Vasoactive intestinal polypeptide; 3′-Untranslated region (Tolentino, P.J. (39) 89)

Posttranslational modification
Chondroitin sulfate proteoglycan; Aggrecan; Versican; Extracellular matrix; Developmental regulation; Sulfation (Li, H. (36) 309)

Post-translational processing
Acetylcholine receptor; *Torpedo*; Assembly signal; α-Bungarotoxin; Disulfide loop (Walcott, E.C. (41) 289)

Potassium channel
Inward rectifier; G protein; cDNA cloning; Human cerebellum; Restriction fragment length polymorphism; Serotonin receptor (Schoots, O. (39) 23)

Potassium currents
Calcium channel subunits; Retina; Glia; Potassium homeostasis; Conotoxin (Puro, D.G. (37) 41)

Potassium homeostasis
Calcium channel subunits; Retina; Glia; Conotoxin; Potassium currents (Puro, D.G. (37) 41)

POU
Transcription factor; Hypothalamus; Neuropeptide; Gene regulation; In situ hybridization; Autoregulation (Malik, K.F. (38) 209)

POU family transcription factor
Transcriptional control; Brn-3; Synapsin; SNAP-25 (Morris, P.J. (43) 279)

PP5
In situ hybridization; mRNA; Protein phosphatase T; Rat brain (Becker, W. (36) 23)

$pp60^{c-src+}$
Immediate early gene; c-*fos*; *jun D*; Hybridisation, in-situ; Striatal lesion; Striatal graft; Development (Haque, N.S.K. (41) 90)

Preembedding
Voltage-operated potassium channel; Voltage-operated sodium channel; Immunogold; Silver enhancement; Gold toning; Electron microscopy; Rat; Cerebellum (Laube, G. (42) 51)

Preoptic nucleus
Fish; Luteinizing hormone-releasing hormone; Nervus terminalis; Midbrain; Pituitary (Parhar, I.S. (41) 216)

Preoptic region
Dynorphin; Enkephalin; Double in situ hybridization; Co-localization (Simerly, R.B. (40) 275)

Preprodynorphin
Cocaine; Preproenkephalin; Kappa opioid receptor; Rat; Brain (Spangler, R. (38) 71)

Electroacupuncture; Fos; Jun; Preproenkephalin; Antisense oligodeoxynucleotide (Guo, H.-F. (43) 167)

Electroacupuncture; Stimulation frequency; c-*fos*; c-*jun*; Preproenkephalin; Proopiomelanocortin (Guo, H.-F. (43) 157)

Preproenkephalin
Electroacupuncture; Fos; Jun; Preprodynorphin; Antisense oligodeoxynucleotide (Guo, H.-F. (43) 167)

Electroacupuncture; Stimulation frequency; c-*fos*; c-*jun*; Preprodynorphin; Proopiomelanocortin (Guo, H.-F. (43) 157)

Preprodynorphin; Cocaine; Kappa opioid receptor; Rat; Brain (Spangler, R. (38) 71)

Preproenkephalin mRNA
Naloxone; Morphine; Withdrawal; Periaqueductal gray; Hybridization, in situ; Rat (Fukunaga, Y. (42) 128)

Preprotachykinin
6-Hydroxydopamine; Dopamine; Dynorphin A(1–8); GBR-12909; Neurokinin A; Prodynorphin; Substance P; Cyclophilin (Sivam, S.P. (35) 197)

Preprotachykinin mRNA
Substance P; Nerve growth factor; trkA mRNA; Diabetic neuropathy; Inflammation (Garrett, N.E. (42) 272)

Presynapse
GABA; Transporter; Electron microscopy; Immunocytochemistry; Cerebellum; Glial process (Itouji, A. (37) 309)

Presynaptic grid
Synapse; Postsynaptic density; Cortex; Cytoskeleton; Synapse-associated protein; cDNA cloning; Expression screening (Langnaese, K. (42) 118)

Pre-synaptic receptor
5-HT_4 receptor; Splice variant; [^{125}I]SB 207710; Basal ganglia (Vilaró, M.T. (43) 356)

Primary neuronal culture
Initiation factor; Translational regulation; Protein phosphorylation (Alcázar, A. (38) 101)

Primer extension
Neurotransmitter receptor; Rat brain; Sp1; AP2; Luciferase assay (Maeno, H. (40) 97)

PRL-1
Protein tyrosine phosphatase; Neuron; Oligodendrocyte; Transient forebrain ischemia; Cerebral cortex (Takano, S. (40) 105)

Process outgrowth
GAP-43; Hybridization, in situ; Human CNS development; Cerebral cortex; Hippocampus (Kanazir, S. (38) 145)

Prodynorphin
6-Hydroxydopamine; Dopamine; Dynorphin A(1–8); GBR-12909; Neurokinin A; Preprotachykinin; Substance P; Cyclophilin (Sivam, S.P. (35) 197)

c-Jun; PC12 cell; Transient transfection; Gel supershift analysis; Gene regulation (Messersmith, D.J. (40) 15)

Prodynorphin mRNA
Cocaine; Chronic infusion; Gene expression; Rat; Hypothalamus; Caudate-putamen (Romualdi, P. (40) 153)

Programed cell death
Focal ischemia; *bcl-2* gene family; DNA fragmentation; Immediate-early gene; Stroke (Gillardon, F. (40) 254)

Programmed cell death
Axotomy; Apoptosis (Butterworth, N.J. (43) 1)

Clusterin; Hypoxia ischemia; Selective neuronal death; Necrosis (Walton, M. (39) 137)

Heat shock protein; Nerve growth factor; Thermal stress; Trigeminal ganglion; Sensory neuron; Protein synthesis (Wyatt, S. (39) 52)

Hypoxic-ischemia; Neuroprotection; cAMP; Jun (Walton, M. (43) 21)

Promoter
Amyloid precursor protein; E box; USF (Bourbonnière, M. (35) 304)

Nerve growth factor; Transcription; Neurotrophin; Polymerase chain reaction; Gene regulation (Racke, M.M. (41) 192)

Proopiomelanocortin
β-Endorphin; α-Melanocyte-stimulating hormone; Morphine; Hypothalamus (Wardlaw, S.L. (41) 140)

Electroacupuncture; Stimulation frequency; c-*fos*; c-*jun*; Preproenkephalin; Preprodynorphin (Guo, H.-F. (43) 157)

Propylthiouracil
c-*fos* mRNA; Audiogenic seizure; Hypothyroidism; Inferior colliculus; In situ hybridization; Epilepsy (Kato, N. (38) 85)

Prostaglandin
Endotoxin; Choroid plexus; Interleukin-1β; c-*fos*; Hypothalamus; Corticotrophin releasing hormone; Oxytocin; Vasopressin; Sheep (Vellucci, S.V. (43) 41)

Prostaglandin E_2
Tyrosine hydroxylase; SK-N-BE(2)C cell; cAMP response element; AP1; Site-directed mutagenesis (Kim, J.-S. (39) 177)

Prostaglandin endoperoxide synthase
Cyclooxygenase; C-*fos*; Cerebral ischemia; Brain; mRNA (Holtz, M.L. (35) 339)

Protein
Focal cerebral ischaemia; Heat shock protein; mRNA; Time course (Wagstaff, M.J.D. (42) 236)

Neurotrophin receptor; Trk-B; Western blot; Cortex; Alcohol (Baek, J.-K. (40) 161)

G-Protein
Bipolar disorder; Lithium; Gene expression (Young, L.T. (42) 45)

Proteinase
Neuropeptide Y; Calcitonin gene-related peptide; Neurons; Microglia; Degradation; Plasminogen activator; uPA; tPA (Ludwig, R. (37) 181)

Protein F1
MARCKS; Imprinting; GAP-43; mRNA; IMHV; Learning (Meberg, P.J. (35) 149)

Protein kinase C
GAP-43; Two-hybrid system; Growth cone; Development; Phosphoprotein; Calmodulin (Chao, S. (40) 195)

Isoforms; Cell proliferation; Calphostin C; H7; Neuroblastoma (Cabedo, H. (37) 125)

NF-κB; IκB; Long-term potentiation; Hippocampus; Rat; Transcription factors; mRNA (Meberg, P.J. (38) 179)

Protein kinase G
$GABA_A$ receptor; cGMP; Phosphorylation; *Xenopus* oocyte; Site-directed mutagenesis (Leidenheimer, N.J. (42) 131)

Protein phosphatase
Long-term potentiation; Antisense DNA; Hippocampus; CA1; Synaptic plasticity; Calcineurin; FK506 (Ikegami, S. (41) 183)

Protein phosphatases
Alzheimer disease; Microtubule associated protein; Microtubules; Neurofibrillary degeneration; Paired helical filaments (Wang, J.-Z. (38) 200)

Protein phosphatase T
In situ hybridization; mRNA; PP5; Rat brain (Becker, W. (36) 23)

Protein phosphorylation
Neurons; Astrocytes; Tyrosine kinase (Burgaya, F. (37) 63)

Primary neuronal culture; Initiation factor; Translational regulation (Alcázar, A. (38) 101)

Protein purification
Baculovirus; *Trichoplusia ni* insect cells; NMDA receptor; Overexpression; Histidine tag; *N*-glycosylation; 5,7-[3-^{3}H]Dichlorokynurenate binding (Sydow, S. (41) 228)

Protein synthesis
Heat shock protein; Nerve growth factor; Programmed cell death; Thermal stress; Trigeminal ganglion; Sensory neuron (Wyatt, S. (39) 52)

Heat-shock protein; Nervous system; Astrocyte; Neuron; Brain injury (Nishimura, R.N. (36) 227)

Protein tyrosine phosphatase
Neuron; Oligodendrocyte; PRL-1; Transient forebrain ischemia; Cerebral cortex (Takano, S. (40) 105)

Proteoglycan
Astroglia; Central nervous system; Extracellular matrix; Neurotrophic activity; Rat (Koops, A. (41) 65)

Proteolipid protein
DM20; Myelin; Gene expression; Brain development; Trout (Tang, S. (41) 134)

Proto-oncogene
Zif-268; Krox-24; Visual development; Plasticity; Critical period (Kaplan, I.V. (36) 12)

c-ret Proto-oncogene
Tyrosine kinase receptor; Chick; Motoneuron; Trophic factor; Deafferentation; Denervation; Hybridization, in situ (Nakamura, M. (39) 1)

Pseudorabies virus
$GABA_A$ receptor; Nucleus ambiguus; Nucleus of the solitary tract; Hybridization, in-situ; Immunohistochemistry; Esophageal peristalsis (Broussard, D.L. (40) 143)

Psychosis
Psychotogenesis; 2-Phenyletylamine; Tryptamine; Schizophrenia; Dopa decarboxylase (Buckland, P.R. (35) 69)

Psychostimulant
SCH 23390; Sulpiride; Opioid; In situ hybridization; Striatum; Sensorimotor cortex; Immediate early gene; Transcription factors (Daunais, J.B. (35) 237)

Psychotogenesis
Psychosis; 2-Phenyletylamine; Tryptamine; Schizophrenia; Dopa decarboxylase (Buckland, P.R. (35) 69)

PTX-insensitive G-protein
Neurotensin; Substantia nigra pars compacta; Dopaminergic neuron; Whole-cell voltage-clamp recording; Single-cell RT-PCR assay (Wang, H.-L. (36) 29)

Purkinje cell
Calbindin-D_{28K}; Cerebellum; Hippocampus; CA1; Transgenic mice (Pavlou, O. (36) 268)

Purkinje cell degeneration
Tottering; Nervous; Neurological mutation; Mutation mapping; Simple sequence length polymorphism (Campbell, D.B. (37) 79)

Purkinje neuron
SERCA; Endoplasmic reticulum; Single-cell PCR; Immunocytochemistry; Brain (Baba-Aïssa, F. (41) 169)

Putamen
Glutamate decarboxylase; Monkey; Parkinson's disease; MPTP; Hybridization histochemistry, in-situ (Soghomonian, J.-J. (39) 237)

Putrescine
Spermidine/spermine N^1-acetyltransferase; Spermidine; Natural polyamines; Cell death; Cerebral ischemia; In situ hybridization; Rat (Zoli, M. (38) 122)

Pyramidal cell
Transgenic mouse; *lacZ* reporter gene; Hybridization, in-situ; Granule cell; Kainic acid; Gene expression; GAP-43 (McNamara, R.K. (40) 177)

Q

Quantitative polymerase chain reaction
Alzheimer's disease; Amyloid precursor protein; Alternative splicing; Leukocyte derived amyloid precursor protein; Serum deprivation; mRNA regulation (Sudoh, S. (39) 12)

Quisqualate
Brain-derived neurotrophic factor; TrkB; Glutamate; Entorhinal cortex; Hippocampus (Falkenberg, T. (42) 317)

Quivering
Voltage-gated sodium channel; β_1-Subunit; Mouse; Neuromuscular disease; Chromosome 7 (Grosson, C.L.S. (42) 222)

R

Radial-maze performance
Fyn-deficient mouse; Tyrosine kinase; Src family; Emotionality; Elevated plus-maze; Open-field test; Spatial learning (Miyakawa, T. (37) 145)

Radiation
Apoptosis; Fetal rat brain; Messenger RNA; p53; Fos; JunB; Bax (Borovitskaya, A.E. (35) 19)

Raphe nuclei
Neurotransmitter transporter; Antidepressant; Cocaine; Ionic dependences; Lipofection (Chang, A.S. (43) 185)

Rat
α-CGRP; β-CGRP; Gene expression; In situ hybridization; Axotomy; Neuron regeneration; Motoneuron; Neurotrophic factor; Hypoglossal nucleus (Sarasa, M. (35) 269)

5-Hydroxytryptamine; Methysergide; Somatostatin receptors; Adenylate cyclase; Brain (Muñoz-Acedo, G. (37) 259)

Acetylcholine; Efferent innervation; Cochlea; Superior olivary complex; Guinea pig; Hybridization, in-situ; Reverse transcriptase–polymerase chain reaction (Safieddine, S. (40) 127)

Acidic domain; Central nervous system; Glial cell; Krüppel-type zinc finger protein; Transcription factor (Pott, U. (38) 109)

Amino acid imbalance; Anorexia; α_2-Noradrenergic receptor; Norepinephrine; Feeding; Anterior piriform cortex; Hypothalamus (Gietzen, D.W. (35) 41)

Amyloid precursor protein; cAMP-Gene expression; Alternative splicing; Astrocyte; Glioma cell line (Gegelashvili, G. (37) 151)

Astroglia; Central nervous system; Extracellular matrix; Neurotrophic activity; Proteoglycan (Koops, A. (41) 65)

Axotomy; Avulsion; Spinal cord; Ventral horn; GAP-43; Synaptic protein; Nucleus; Intron; In situ hybridization; mRNA; Gene; Chicken (Jacobsson, G. (37) 49)

Basic fibroblast growth factor; Cerebral ischemia; Cerebral infarction; Northern blot; In situ hybridization; Immunohistochemistry (Speliotes, E.K. (39) 31)

Calbindin-D28k; mRNA; Oxytocin; Vasopressin; Dehydration; Parturition; Lactation (Voisin, D.L. (42) 279)

Capsaicin; Resiniferatoxin; Vanilloid receptor; Cultured neurons; Dorsal root ganglia; Receptor subclasses (Acs, G. (35) 173)

Cigarette smoke; cGMP; Nitric oxide; Free radical; Synaptosome; Nerve terminal; Cerebral cortex (Kamisaki, Y. (42) 39)

Cocaine; Alcohol; Stress; Immediate-early gene (Torres, G. (43) 225)

Cocaine; Chronic infusion; Gene expression; Prodynorphin mRNA; Hypothalamus; Caudate-putamen (Romualdi, P. (40) 153)

Corticosterone; Kainate receptors; In situ hybridization; Hippocampus (Joëls, M. (37) 15)

Dopamine; Serotonin; C-*fos*; Immunohistochemistry; $5\text{-}HT_{1A}$ receptors; $5\text{-}HT_2$ receptors; $5\text{-}HT_3$ receptors; D_1 receptors; Agonists; Antagonists; Striatum; 6-OHDA (Rouillard, C. (37) 105)

Forebrain ischemia; Neurotrophins; Hippocampus; Brain damage (Kokaia, Z. (38) 139)

$GABA_A$ receptor; Enteric nervous system; Hybridization, in-situ; Reverse transcription–polymerase chain reaction; γ-Aminobutyric acid; Myenteric plexus (Zeiter, D.K. (39) 241)

Growth factor; Cytokine; Nerve injury; Hypoglossal (Morita, N. (42) 263)

Head trauma; In situ hybridization; Insulin-like growth factor; Insulin-like growth factor binding protein; Cholecystokinin; Gene regulation; Gene expression (Sandberg Nordqvist, A.-C. (38) 285)

LIM domain; Development; In situ hybridization; Brain; Localization (Furuyama, T. (36) 152)

NF-κB; IκB; Long-term potentiation; Hippocampus; Protein kinase C; Transcription factors; mRNA (Meberg, P.J. (38) 179)

Na^+/*myo*-inositol cotransporter; In situ hybridization; Hypertonicity; Retina (Morimura, H. (35) 333)

Na^+/*myo*-inositol cotransporter; Inner ear; In situ hybridization (Minami, Y. (35) 319)

Naloxone; Morphine; Withdrawal; Preproenkephalin mRNA; Periaqueductal gray; Hybridization, in situ (Fukunaga, Y. (42) 128)

Preprodynorphin; Cocaine; Preproenkephalin; Kappa opioid receptor; Brain (Spangler, R. (38) 71)

Regional distribution; $GABA_B$ receptor; GTP analogue; Gpp(NH)p; Brain; Binding; G-protein; Ontogeny (Mathivet, P. (42) 18)

Somatostatin receptor; Gonadal regulation; Anterior pituitary; Hybridization, in-situ (Señarís, R.M. (38) 171)

Spermidine/spermine N^1-acetyltransferase; Putrescine; Spermidine; Natural polyamines; Cell death; Cerebral ischemia; In situ hybridization (Zoli, M. (38) 122)

Suprachiasmatic nucleus; Supraoptic nucleus; Circadian rhythm; In situ hybridization; Glutamate transporter; EAAC1; Glutamate uptake (Cagampang, F.R.A. (35) 190)

UbC; UbB; UbA; Cortex; Hippocampus; In situ hybridization; Dot-blotting (Noga, M. (36) 261)

Voltage-operated potassium channel; Voltage-operated sodium channel; Immunogold; Preembedding; Silver enhancement; Gold toning; Electron microscopy; Cerebellum (Laube, G. (42) 51)

Rat brain
(Langnaese, K. (42) 118)

G-protein-coupled receptor; Hybridization, in situ; Receptor antibody; Gene regulation; SR 48692 (Azzi, M. (42) 213)

$GABA_A$ receptor γ_2 subunit; $GABA_A$ receptor; Benzodiazepine receptor; Antibody; mRNA; Aging (Gutiérrez, A. (35) 91)

In situ hybridization; mRNA; Protein phosphatase T; PP5 (Becker, W. (36) 23)

Insulin receptor-related receptor; TrkA; Cholinergic neuron; Hybridization, in situ; Immunohistochemistry (Tsuji, N. (41) 250)

Lithium; Electroconvulsive therapy; Manic-depressive illness; Cholecystokinin; mRNA expression; Hybridization, in situ (Zachrisson, O. (43) 347)

Na^+/nucleoside cotransport; RT-PCR; Nucleoside transport; Adenosine; Adenosine transport (Anderson, C.M. (42) 358)

Neurotransmitter receptor; Primer extension; Sp1; AP2; Luciferase assay (Maeno, H. (40) 97)

TRP; Store-operated Ca^{2+} channel; Hybridization, in situ; Development (Funayama, M. (43) 259)

Rat central nervous system
Cholinergic neurons; Hydridization histochemistry, in situ; Acetylcholine; Vesicular transporter; Non-radiolabeled riboprobes (Roghani, A. (43) 65)

Rat C6 glioma
Human astrocytic tumor; Glutamate transporter; Alanosine; Gene expression (Palos, T.P. (37) 297)

Rat pheochromocytoma cell
Tyrosine hydroxylase; Muscarinic acetylcholine receptor; Gene regulation; Cyclic AMP response element; AP1 element (Chen, Y. (40) 42)

Rat pineal gland
Tryptophan hydroxylase mRNA; Nycthemeral rhythm; Hybridization, in-situ (Besançon, R. (40) 136)

RC3/Neurogranin
Hypothyroidism; Corpus striatum; Hybridization, in situ; Goat (Piosik, P.A. (42) 227)

Reactive astrocyte
Heme oxygenase; Brain injury; Heat shock protein; Stress protein; Gliosis (Dwyer, B.E. (38) 251)

Receptor
Aplysia; G-protein; Adenylyl cyclase; Cyclic adenosine monophosphate; Bag cell peptide (Berry, R.W. (38) 176)

5-HT; Astrocyte; Glioma; Growth; Migration (Merzak, A. (41) 1)

Corticotropin-releasing factor; Paraventricular nucleus; Stress; Hybridization, in situ (Imaki, T. (38) 166)

Metabotropic; Glutamate; G protein; Hybridization, in situ (Makoff, A. (40) 55)

cDNA; Leucine-rich repeat; Mouse; Nervous system; Adhesion molecule (Taniguchi, H. (36) 45)

Receptor antibody
G-protein-coupled receptor; Hybridization, in situ; Gene regulation; Rat brain; SR 48692 (Azzi, M. (42) 213)

Receptor binding
5′ Flanking region; Adrenalectomy; Gel mobility shift; Hybridization, in situ; mRNA; Septum (Watters, J.J. (38) 276)

Receptor cDNA transfection; CCK_B receptors; DA D_2 receptors; Receptor-receptor interaction (Dasgupta, S. (36) 292)

Receptor cDNA transfection
CCK_B receptors; DA D_2 receptors; Receptor binding; Receptor-receptor interaction (Dasgupta, S. (36) 292)

Receptor expression
Ifenprodil; *N*-methyl-D-aspartate; Neuron; Cell culture; Electrophysiology; Receptor subtype (Priestley, T. (40) 271)

Receptor protein tyrosine kinase
Synaptic plasticity; Brain-derived neurotrophic factor; Neurotrophin; trkB; Postsynaptic (Wu, K. (43) 286)

Receptor-receptor interaction
Receptor cDNA transfection; CCK_B receptors; DA D_2 receptors; Receptor binding (Dasgupta, S. (36) 292)

Receptor regulation
$5\text{-}HT_{1A}$ receptors; $5\text{-}HT_{1A}$ mRNA; EEDQ; Hybridization, in situ; Autoradiography; p-MPPI (Raghupathi, R.K. (38) 233)

$5\text{-}HT_{2A}$ receptor; $5\text{-}HT_{2A}$ mRNA; N-ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Hybridization, in-situ; Autoradiography (Raghupathi, R.K. (39) 198)

Receptor subclasses
Capsaicin; Resiniferatoxin; Vanilloid receptor; Cultured neurons; Dorsal root ganglia; Rat (Acs, G. (35) 173)

Receptor subtype
Ifenprodil; *N*-methyl-D-aspartate; Neuron; Cell culture; Electrophysiology; Receptor expression (Priestley, T. (40) 271)

Angiotensin II; Brain development; [^{125}I]Sar^1-ANG II binding (Jöhren, O. (37) 192)

Receptor tyrosine phosphatase
Chondroitin sulfate proteoglycan; Trk receptor; In-situ hybridization; Hippocampus; Sprouting; Lesion; Glial scarring (Snyder, S.E. (40) 79)

Reeler mouse
Brain; Extracellular matrix; Central nervous system; Polymerase chain reaction; Gene (D'Arcangelo, G. (39) 234)

Regeneration
Diabetes; Neuropathy; Neurotrophin; Growth associated protein-43; Substance P (Maeda, K. (37) 166)

Regional distribution
$GABA_B$ receptor; GTP analogue; Gpp(NH)p; Rat; Brain; Binding; G-protein; Ontogeny (Mathivet, P. (42) 18)

Release mechanism
Nitrix oxide; γ-Aminobutyric acid (Ohkuma, S. (36) 137)

REM sleep
c-*fos*; Immediate-early genes; Brainstem; Acetylcholine (Shiromani, P.J. (38) 77)

Reproduction
Retrograde tracing; Fluorogold; Immunocytochemistry; Lesions; Opioid peptide; Sexual dimorphism (Hoffman, G.E. (36) 201)

Residual brain/endoneurium plasma volume
Blood-brain barrier; Blood-nerve barrier; Permeability coefficient-surface area product; Neurotrophic factor; Ciliary neurotrophic factor; Nerve growth factor; Neurotrophin-3; Brain-derived neurotrophic factor (Poduslo, J.F. (36) 280)

Resiniferatoxin
Capsaicin; Vanilloid receptor; Cultured neurons; Dorsal root ganglia; Rat; Receptor subclasses (Acs, G. (35) 173)

Restraint stress
CRH-R1 mRNA; C57; DBA; In-situ hybridization; Cortical areas (Giardino, L. (40) 310)

Restriction fragment length polymorphism
α-Bungarotoxin; Nicotinic receptor subunit; Nicotinic receptor; Genetics; Seizure (Stitzel, J.A. (43) 30)

Inward rectifier; Potassium channel; G protein; cDNA cloning; Human cerebellum; Serotonin receptor (Schoots, O. (39) 23)

Retina
C3H/HeN mice; Suprachiasmatic nucleus; Light; c-*fos* mRNA (Masana, M.I. (42) 193)

Calcium channel subunits; Glia; Potassium homeostasis; Conotoxin; Potassium currents (Puro, D.G. (37) 41)

Glycine; Glycine transporter; mRNA expression; Ischemia; NMDA receptor (Goebel, D.J. (40) 139)

Na^+/*myo*-inositol cotransporter; In situ hybridization; Hypertonicity; Rat (Morimura, H. (35) 333)

Photoreceptor; Circadian; Rhythmic expression; *Xenopus*; Differential display (Green, C.B. (37) 157)

Pineal gland; cDNA cloning; Polymerase chain reaction; Hybridization, in situ; EGF-like repeat (Wang, X. (41) 269)

Retrograde tracing
Fluorogold; Immunocytochemistry; Lesions; Reproduction; Opioid peptide; Sexual dimorphism (Hoffman, G.E. (36) 201)

Retrograde transport
Nerve growth factor; Neurotrophic factor; Basal forebrain; Neurodegeneration; Dot blots; ELISA (Fahnestock, M. (42) 175)

Reverse transcriptase-PCR
Dopamine; Tyrosine hydroxylase; Synaptic vesicle monoamine transporter; Neuronal interaction (Perrone-Capano, C. (39) 160)

Aging; Alzheimer's disease; Amyloid precursor protein mRNA; Amyloid precursor protein; Alternative splicing (Ebstein, R.P. (35) 260)

Reverse transcriptase–polymerase chain reaction
Acetylcholine; Efferent innervation; Cochlea; Superior olivary complex; Guinea pig; Rat; Hybridization, in-situ (Safieddine, S. (40) 127)

Brain-derived neurotrophic factor; 1-Methyl-4-phenylpyridinium; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Substantia nigra; Ventral tegmental area; Striatum; Nucleus accumbens; Gene expression (Hung, H.-C. (41) 16)

$GABA_A$ receptor; Enteric nervous system; Hybridization, in-situ; γ-Aminobutyric acid; Myenteric plexus; Rat (Zeiter, D.K. (39) 241)

Insulin-regulatable glucose transporter; GLUT4; Glucose utilization; Brain metabolism; Neuron; Immunocytochemistry (Leloup, C. (38) 45)

Tachykinin NK1 receptor; Dorsal root ganglion; Gene expression; Mouse; Messenger ribonucleic acid; CNS (Andoh, T. (35) 329)

Rhythmic expression
Retina; Photoreceptor; Circadian; *Xenopus*; Differential display (Green, C.B. (37) 157)

Ribonucleic acid
Apolipoprotein E; Amyloid precursor protein; Hybridization, in situ (Ali, S.M. (38) 37)

RNA
Antisense; Oligodendrocyte; Transgenic strategy; Myelin; Myelin oligodendrocyte glycoprotein (MOG) (Jaquet, V. (43) 333)

Hybridization, in situ; $GABA_A$ receptor; Triazolam; Chronic; Limbic system (Ramsey-Williams, V.A. (43) 132)

c-*fos* mRNA
Audiogenic seizure; Hypothyroidism; Inferior colliculus; Propylthiouracil; In situ hybridization; Epilepsy (Kato, N. (38) 85)

C3H/HeN mice; Suprachiasmatic nucleus; Retina; Light (Masana, M.I. (42) 193)

mRNA
5′ Flanking region; Adrenalectomy; Receptor binding; Gel mobility shift; Hybridization, in situ; Septum (Watters, J.J. (38) 276)

Amyloid precursor protein; Amyloid precursor-like protein 2; Alzheimer's disease; Solution hybridisation-RNase protection; Postmortem human brain (Johnston, J.A. (43) 85)

Androgen receptor; Estrogen receptor; Estrogen; Dihydrotestosterone; Medial preoptic area; Bed nucleus of the stria terminalis (Handa, R.J. (39) 57)

Axotomy; Avulsion; Spinal cord; Ventral horn; GAP-43; Synaptic protein; Nucleus; Intron; In situ hybridization; Gene; Rat; Chicken (Jacobsson, G. (37) 49)

Calbindin-D28k; Oxytocin; Vasopressin; Dehydration; Parturition; Lactation; Rat (Voisin, D.L. (42) 279)

Caudate putamen; In situ hybridization; Anesthesia; Barbiturate; Sedative; Pentobarbital; Chloral hydrate (Quiñones-Jenab, V. (35) 297)

Cerebrum; Hypothyroid; Tubulin; Actin; Transcription (Poddar, R. (35) 111)

Cyclooxygenase; Prostaglandin endoperoxide synthase; C-*fos*; Cerebral ischemia; Brain (Holtz, M.L. (35) 339)

Dopamine D_1 receptor; Dopamine D_2 receptor; Dopamine D_3 receptor; Hybridization, in situ; Limbic system (Damask, S.P. (41) 241)

Dorsal root ganglion; Hybridization, in situ; Sodium channel; Reverse transcription polymerase chain reaction (RT-PCR) (Black, J.A. (43) 117)

Focal cerebral ischaemia; Heat shock protein; Protein; Time course (Wagstaff, M.J.D. (42) 236)

$GABA_A$ receptor γ_2 subunit; $GABA_A$ receptor; Benzodiazepine receptor; Antibody; Rat brain; Aging (Gutiérrez, A. (35) 91)

GABA; TrkB; Hippocampus; In situ hybridization (Zachrisson, O. (36) 169)

Genetically epilepsy-prone rat; Neurotransporters; Tyrosine hydroxylase; In situ; Tryptophan hydroxylase; Norepinephrine transporter; Dopamine transporter; Serotonin transporter (Szot, P. (43) 233)

Glutamate; Nitric oxide synthase; Apoptosis; NMDA; Granule cell (Tascedda, F. (40) 171)

Hybridization, in situ; Astrocyte; Kainic acid; Northern blot analysis (Owada, Y. (42) 156)

In situ hybridization; Protein phosphatase T; PP5; Rat brain (Becker, W. (36) 23)

Interleukin; Cytokine; Growth factor; Neuroimmunology; Immune system; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Midbrain; Feeding; Food intake; Intracerebroventricular; Cerebrospinal fluid (Ilyin, S.E. (43) 209)

MARCKS; Imprinting; Protein F1; GAP-43; IMHV; Learning (Meberg, P.J. (35) 149)

NF-κB; IκB; Long-term potentiation; Hippocampus; Protein kinase C; Rat; Transcription factors (Meberg, P.J. (38) 179)

RNA binding protein; Neuronal differentiation; Neurospecific expression; Alternative splicing; Cell lines P19 and PC12; cDNA cloning (Steller, U. (35) 285)

Solution hybridisation-RNase protection assay; Amyloid precursor protein; Amyloid precursor-like protein 2 (Johnston, J.A. (43) 77)

TNF-α; Northern blot; Cortex; Injury; Fluid percussion (Fan, L. (36) 287)

Vitamin D; 1,25-Dihydroxyvitamin D3 receptor; Tyrosine hydroxylase; Gene expression; Adrenal medulla (Puchacz, E. (36) 193)

RNA binding motif
$5\text{-}HT_{2C}$ receptor mRNA; 3′ Untranslated region; Brain binding proteins; Post-transcriptional regulation (Kao, H.-T. (43) 174)

RNA binding protein
Neuronal differentiation; Neurospecific expression; Alternative splicing; Cell lines P19 and PC12; mRNA; cDNA cloning (Steller, U. (35) 285)

mRNA distribution
Human; Melatonin receptor; Brain; Cerebellum; Cortex; Hybridization, in situ; Autoradiography (Mazzucchelli, C. (39) 117)

RNA editing
AMPA-Glutamate receptor; Ion channel; Chick brain; cDNA cloning; Alternative splicing (Paperna, T. (36) 101)

mRNA expression
Fetal neuronal cells; Sodium channel subunits; α-Scorpion toxin; Polymerase chain reaction (Lara, A. (37) 116)

Glycine; Glycine transporter; Retina; Ischemia; NMDA receptor (Goebel, D.J. (40) 139)

Lithium; Electroconvulsive therapy; Manic-depressive illness; Cholecystokinin; Hybridization, in situ; Rat brain (Zachrisson, O. (43) 347)

Sodium- and chloride-dependent neurotransmitter transporter family; v7-3; Hybridization, in situ; Widespread brain distribution (Inoue, K. (37) 217)

mRNA levels
Chronic ethanol; NMDA receptor antagonist; Upregulation (Hu, X.-J. (36) 211)

GAP-43; Cerebellum; Alzheimer's disease; Neurofibrillary tangle; Diffuse plaque; Neuritic plaque (Cheetham, J.E. (36) 145)

RNA processing
GT1 cell; GnRH; Mouse; RNase protection assay; Phorbol ester (Yeo, T.T.S. (42) 255)

RNA–protein interaction
GAP-43; mRNA stability; Gene expression; Sequence conservation; 3′ untranslated region (Kohn, D.T. (36) 240)

mRNA quantitation
Sodium channel; Ion channel; Epilepsy; Ligase detection reaction (Lombardo, A.J. (35) 84)

mRNA regulation
Alzheimer's disease; Amyloid precursor protein; Alternative splicing; Leukocyte derived amyloid precursor protein; Serum deprivation; Quantitative polymerase chain reaction (Sudoh, S. (39) 12)

RNase protection assay
Development; Glutamate receptor; Gene expression; Brain; Epilepsy; Schizophrenia (Sircar, R. (40) 214)

Fibroblast growth factor; Fibroblast growth factor receptor; Adrenal gland; Chromaffin cell (Meisinger, C. (36) 70)

GT1 cell; RNA processing; GnRH; Mouse; Phorbol ester (Yeo, T.T.S. (42) 255)

Transcription factor; Homeodomain; Zinc finger; Neuronal differentiation; Gene expression; Hybridization, in situ (Watanabe, M. (42) 344)

mRNA stability
GAP-43; RNA–protein interaction; Gene expression; Sequence conservation; 3′ untranslated region (Kohn, D.T. (36) 240)

Nerve growth factor; AP-1; cAMP; 12-*O*-Tetradecanoyl phorbol-13-acetate; Intracellular Ca^{2+} (Colangelo, A.M. (35) 1)

mRNA stabilization
Choline acetyltransferase; Spinal muscular atrophy of childhood; Motoneuron development; Neurofilament overexpression; Neuromuscular diseases; RT-PCR; Transcriptional regulation (Pernas-Alonso, R. (38) 267)

RNA transport
Cytoskeleton; Microtubule; Alternative splicing; MAP2 (Kindler, S. (36) 63)

Rolipram
Transcription factor; cAMP response element; Aging; Brain; Phosphodiesterase inhibitor (Asanuma, M. (41) 210)

ROR-C
Opioid receptor; Endogenous ligand; Allodynia; Spinal cord (Okuda-Ashitaka, E. (43) 96)

Rostral ventrolateral medulla
Exercise; Post-exercise hypotension; Enkephalin; Blood pressure; Hypertension (Boone Jr., J.B. (42) 31)

RT-PCR
Choline acetyltransferase; Spinal muscular atrophy of childhood; Motoneuron development; mRNA stabilization; Neurofilament overexpression; Neuromuscular diseases; Transcriptional regulation (Pernas-Alonso, R. (38) 267)

Na^+/nucleoside cotransport; Nucleoside transport; Rat brain; Adenosine; Adenosine transport (Anderson, C.M. (42) 358)

Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin 3; Neurotrophin 4/5; *trk*A; *trk*B; *trk*C; $p75^{LNGFR}$ (Suter-Crazzolara, C. (43) 351)

S

S100
Calcium-binding protein; Olfactory tissue; Teleost; Nucleotide sequence; cDNA library (Porta, A.R. (41) 81)

S100β
Brain development; Down syndrome (Marks, A. (36) 343)

SCH 23390
Sulpiride; Opioid; In situ hybridization; Striatum; Sensorimotor cortex; Psychostimulant; Immediate early gene; Transcription factors (Daunais, J.B. (35) 237)

Schizophrenia
Development; Glutamate receptor; Gene expression; RNase protection assay; Brain; Epilepsy (Sircar, R. (40) 214)

Psychosis; Psychotogenesis; 2-Phenyletylamine; Tryptamine; Dopa decarboxylase (Buckland, P.R. (35) 69)

Schwann cells
Immunohistochemistry; Oligodendrocytes; Myelin (Moore, C. (37) 74)

α-Scorpion toxin
Fetal neuronal cells; Sodium channel subunits; mRNA expression; Polymerase chain reaction (Lara, A. (37) 116)

Second messenger
Chromogranin; Secretoneurin; Synthesis regulation; Signal transduction (Wolkersdorfer, M. (38) 260)

Secretoneurin
Chromogranin; Synthesis regulation; Second messenger; Signal transduction (Wolkersdorfer, M. (38) 260)

Sedative
mRNA; Caudate putamen; In situ hybridization; Anesthesia; Barbiturate; Pentobarbital; Chloral hydrate (Quiñones-Jenab, V. (35) 297)

Seizure
α-Bungarotoxin; Nicotinic receptor subunit; Nicotinic receptor; Genetics; Restriction fragment length polymorphism (Stitzel, J.A. (43) 30)

Gene regulation; Transcription factor; Immediate-early gene; Hippocampus; Lindane; PC12 cell; Signal-transcription coupling (Peña de Ortiz, S. (38) 1)

Kainic acid; Synaptotagmin; Development; Hippocampus; Limbic system (Tocco, G. (40) 229)

Kindling; In situ hybridization; Cholecystokinin; Electroconvulsive seizure (Zhang, L.-X. (35) 278)

Selective neuronal death
Clusterin; Hypoxia ischemia; Programmed cell death; Necrosis (Walton, M. (39) 137)

Semi-quantitative polymerase chain reaction
Serotonin; Cytokine (Pousset, F. (38) 54)

Senile plaque
Neurotrophin; Human brain; Hippocampus; Neurodegeneration; Astrocyte; Downs syndrome (Connor, B. (42) 1)

Sensorimotor cortex
SCH 23390; Sulpiride; Opioid; In situ hybridization; Striatum; Psychostimulant; Immediate early gene; Transcription factors (Daunais, J.B. (35) 237)

Sensory neuron
Heat shock protein; Nerve growth factor; Programmed cell death; Thermal stress; Trigeminal ganglion; Protein synthesis (Wyatt, S. (39) 52)

Single cell RT-PCR; p75; Neurotrophin receptor; Neurofilament (Moshnyakov, M. (43) 141)

Septo-hippocampal system
Gene transfer; Cationic lipid; Nerve growth factor; Neurofilament; Cell culture (Yang, K. (43) 13)

Septum
5′ Flanking region; Adrenalectomy; Receptor binding; Gel mobility shift; Hybridization, in situ; mRNA (Watters, J.J. (38) 276)

Sequence
Glutamate; Cotransport; In situ hybridization; Vaccinia virus; Expression (Bjørås, M. (36) 163)

Sequence conservation
GAP-43; mRNA stability; RNA–protein interaction; Gene expression; 3′ untranslated region (Kohn, D.T. (36) 240)

SERCA
Endoplasmic reticulum; Single-cell PCR; Immunocytochemistry; Brain; Purkinje neuron (Baba-Aïssa, F. (41) 169)

Serine proteinase inhibitor
Thrombin; B-43; Bovine brain; Cloning (Nakaya, N. (42) 293)

Serotonin
Cytokine; Semi-quantitative polymerase chain reaction (Pousset, F. (38) 54)

Dopamine; C-*fos*; Immunohistochemistry; 5-HT_{1A} receptors; 5-HT_2 receptors; 5-HT_3 receptors; D_1 receptors; Agonists; Antagonists; Striatum; 6-OHDA; Rat (Rouillard, C. (37) 105)

Human brain; Serotonin receptors; Gene expression; Hybridization histochemistry, in-situ (Pasqualetti, M. (39) 223)

Serotonin 5-HT_{1B} receptor
In situ hybridization; Olfactory tubercle; γ-Aminobutyric acid; Immunocytochemistry (Cloëz-Tayarani, I. (36) 337)

Serotonin *N*-acetyltransferase
Transgenic pineal tumor; Tryptophan hydroxylase promoter (Son, J.H. (37) 32)

Serotonin receptor
Inward rectifier; Potassium channel; G protein; cDNA cloning; Human cerebellum; Restriction fragment length polymorphism (Schoots, O. (39) 23)

Serotonin receptors
Human brain; Serotonin; Gene expression; Hybridization histochemistry, in-situ (Pasqualetti, M. (39) 223)

Serotonin transporter
Genetically epilepsy-prone rat; mRNA; Neurotransporters; Tyrosine hydroxylase; In situ; Tryptophan hydroxylase; Norepinephrine transporter; Dopamine transporter (Szot, P. (43) 233)

Serotonin transporter mRNA
Polymerase chain reaction; Tryptophan hydroxylase mRNA; 5,7-Dihydroxytryptamine; Dorsal raphe nucleus; Dexfenfluramine (Semple-Rowland, S.L. (41) 121)

Serum deprivation
Alzheimer's disease; Amyloid precursor protein; Alternative splicing; Leukocyte derived amyloid precursor protein; mRNA regulation; Quantitative polymerase chain reaction (Sudoh, S. (39) 12)

Sex
Creatine kinase; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Brain stem; Spinal cord; Olfactory bulb; Striatum; Thalamus; Gender; Interleukin; Cytokine (Ilyin, S.E. (41) 50)

Sex difference
Testosterone propionate; Dihydrotestosterone; Steroid receptor; Cranial motor neuron (Drengler, S.M. (41) 8)

Sexual dimorphism
Retrograde tracing; Fluorogold; Immunocytochemistry; Lesions; Reproduction; Opioid peptide (Hoffman, G.E. (36) 201)

Sheep
Endotoxin; Choroid plexus; Prostaglandin; Interleukin-1β; c-*fos*; Hypothalamus; Corticotrophin releasing hormone; Oxytocin; Vasopressin (Vellucci, S.V. (43) 41)

Short-term depolarization
Veratridine; Veratridine-induced SS gene expression; SS mRNA; Brain somatostatin; Long-term depolarization (Tolón, R.M. (35) 103)

SH-SY5Y cell
Calcium; Store depletion; Calcium entry; Muscarinic receptor; SKF 96365; Fura-2 (Grudt, T.J. (36) 93)

Signal-transcription coupling
Gene regulation; Transcription factor; Immediate-early gene; Hippocampus; Seizure; Lindane; PC12 cell (Peña de Ortiz, S. (38) 1)

Signal transduction
Chromogranin; Secretoneurin; Synthesis regulation; Second messenger (Wolkersdorfer, M. (38) 260)

In situ hybridization; Immediate early gene; Neuronal death; Hippocampus (Kamme, F. (43) 51)

Silencer
DBH promoter; Transient transfection; Luciferase activity; cAMP regulation (Afar, R. (36) 79)

Silver enhancement
Voltage-operated potassium channel; Voltage-operated sodium channel; Immunogold; Preembedding; Gold toning; Electron microscopy; Rat; Cerebellum (Laube, G. (42) 51)

Simple sequence length polymorphism
Tottering; Purkinje cell degeneration; Nervous; Neurological mutation; Mutation mapping (Campbell, D.B. (37) 79)

Single-cell PCR
SERCA; Endoplasmic reticulum; Immunocytochemistry; Brain; Purkinje neuron (Baba-Aïssa, F. (41) 169)

Single cell RT-PCR
Sensory neuron; p75; Neurotrophin receptor; Neurofilament (Moshnyakov, M. (43) 141)

Single-cell RT-PCR assay
Neurotensin; Substantia nigra pars compacta; Dopaminergic neuron; Whole-cell voltage-clamp recording; PTX-insensitive G-protein (Wang, H.-L. (36) 29)

Single photon emission computed tomography
Haloperidol and metabolites; Neurotoxicity; Tardive dyskinesia; [^{123}I]Iodobenzamide; Dopamine receptor binding; Baboon; 4-(4-Chlorophenyl)-[4-(fluorophenyl)-4-oxobutyl]-1,2,3,6-tetrahydropyridine (Van der Schyf, C.J. (43) 251)

Site-directed mutagenesis
$GABA_A$ receptor; Protein kinase G; cGMP; Phosphorylation; *Xenopus* oocyte (Leidenheimer, N.J. (42) 131)

Tyrosine hydroxylase; Prostaglandin E_2; SK-N-BE(2)C cell; cAMP response element; AP1 (Kim, J.-S. (39) 177)

Site specific peptide
Multiple antigenic peptide; Polymerase chain reaction; Immunocytochemistry; 5,7-Dihydroxytryptamine; Fusion protein; Dorsal raphe (Zhou, F.C. (43) 267)

SKF 96365
SH-SY5Y cell; Calcium; Store depletion; Calcium entry; Muscarinic receptor; Fura-2 (Grudt, T.J. (36) 93)

SK-N-BE(2)C cell
Tyrosine hydroxylase; Prostaglandin E_2; cAMP response element; AP1; Site-directed mutagenesis (Kim, J.-S. (39) 177)

SK-N-MC cell line
Parathyroid hormone/parathyroid hormone-related peptide receptor; Human brain; Cerebellum; Nervous system (Eggenberger, M. (36) 127)

SNAP-25
Transcriptional control; POU family transcription factor; Brn-3; Synapsin (Morris, P.J. (43) 279)

SNF4/CAT3
Hypothyroidism; AMP-activated protein kinase; Hybridization, in situ; Brain; Mouse; Goat (Piosik, P.A. (40) 240)

Sodium- and chloride-dependent neurotransmitter transporter family
v7-3; mRNA expression; Hybridization, in situ; Widespread brain distribution (Inoue, K. (37) 217)

Sodium channel
Dorsal root ganglion; Hybridization, in situ; mRNA; Reverse transcription polymerase chain reaction (RT-PCR) (Black, J.A. (43) 117)

Ion channel; Epilepsy; Ligase detection reaction; mRNA quantitation (Lombardo, A.J. (35) 84)

Sodium channel subunits
Fetal neuronal cells; mRNA expression; α-Scorpion toxin; Polymerase chain reaction (Lara, A. (37) 116)

Sodium nitroprusside
L-Arginine; *N*-L-Arginine-methyl ester; Calcium/calmodulin-dependent phosphorylation; Major postsynaptic density protein; Nitric oxide; Nitric oxide synthase; Synapse (Wu, K. (40) 22)

Solution hybridisation-RNase protection assay
mRNA; Amyloid precursor protein; Amyloid precursor-like protein 2 (Johnston, J.A. (43) 77)

Solution hybridisation-RNase protection
Amyloid precursor protein; Amyloid precursor-like protein 2; Alzheimer's disease; mRNA; Post-mortem human brain (Johnston, J.A. (43) 85)

Somatostatin
GHRH; Hypothalamus; Non-androgenic testicular factors (Lago, F. (35) 220)

NMDA receptor; Neostriatum; Interneuron; Choline acetyltransferase; GABAergic (Standaert, D.G. (42) 89)

PACAP; Gonadotropin-releasing hormone; Gene expression; Hypothalamus (Li, S. (41) 157)

c-*fos*; Growth hormone-releasing peptide; Growth hormone; Growth hormone-releasing factor; In situ hybridization (Kamegai, J. (39) 153)

Somatostatin receptor
Gonadal regulation; Anterior pituitary; Rat; Hybridization, in-situ (Señarís, R.M. (38) 171)

Histamine; Adenylyl cyclase; G-protein; Hippocampus (Puebla, L. (35) 77)

5-Hydroxytryptamine; Methysergide; Adenylate cyclase; Brain; Rat (Muñoz-Acedo, G. (37) 259)

Sox
Hight Mobility Group box; Zebrafish; Brain development; Embryogenesis (Vriz, S. (40) 221)

Sp1
Neurotransmitter receptor; Rat brain; Primer extension; AP2; Luciferase assay (Maeno, H. (40) 97)

***Spastic* mouse**
Glycine receptor; Human; Ligand-gated ion channel receptor; Molecular cloning; Chromosomal localization (Handford, C.A. (35) 211)

Spatial learning
Fyn-deficient mouse; Tyrosine kinase; Src family; Emotionality; Elevated plus-maze; Open-field test; Radial-maze performance (Miyakawa, T. (37) 145)

Spatial memory
NGFI-A; Hippocampus; Water maze; Gene expression; Glucocorticoid receptor (Yau, J.L.W. (42) 354)

Spermidine
Spermidine/spermine N^1-acetyltransferase; Putrescine; Natural polyamines; Cell death; Cerebral ischemia; In situ hybridization; Rat (Zoli, M. (38) 122)

Spermidine / spermine N^1-acetyltransferase
Putrescine; Spermidine; Natural polyamines; Cell death; Cerebral ischemia; In situ hybridization; Rat (Zoli, M. (38) 122)

SPI-3
Ischemia; Differential display; Astrocyte (Tsuda, M. (35) 314)

Spinal cord
Amygdala; Hippocampus (Morales, M. (36) 251)

Axotomy; Avulsion; Ventral horn; GAP-43; Synaptic protein; Nucleus; Intron; In situ hybridization; mRNA; Gene; Rat; Chicken (Jacobsson, G. (37) 49)

Creatine kinase; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Brain stem; Olfactory bulb; Striatum; Thalamus; Gender; Sex; Interleukin; Cytokine (Ilyin, S.E. (41) 50)

Opioid receptor; Opiate tolerance; Hybridization, in-situ; K^+ channel (Matus-Leibovitch, N. (40) 261)

P75; Vitamin D; Gene regulation; Astrocyte; C6 glioma (Naveilhan, P. (41) 259)

ROR-C; Opioid receptor; Endogenous ligand; Allodynia (Okuda-Ashitaka, E. (43) 96)

Spinal muscular atrophy
Calmodulin kinase type II; Wobbler; Mouse; Motor neuron disease (Bronstein, J.M. (43) 330)

Spinal muscular atrophy of childhood
Choline acetyltransferase; Motoneuron development; mRNA stabilization; Neurofilament overexpression; Neuromuscular diseases; RT-PCR; Transcriptional regulation (Pernas-Alonso, R. (38) 267)

Spleen
Adrenalectomy; Lipopolysaccharide; IL-1; Tumor necrosis factor; IL-6; IL-1ra; Pituitary; Brain; Mice (Goujon, E. (36) 53)

Splice variant
5-HT_4 receptor; [^{125}I]SB 207710; Basal ganglia; Pre-synaptic receptor (Vilaró, M.T. (43) 356)

Splicing
N-methyl-D-aspartate; Glutamate receptor; NMDAR1; Oocyte; Voltage-clamp (Koltchine, V.V. (39) 99)

Spontaneously hypertensive rat
Neuropeptide Y; In situ hybridization histochemistry; Arcuate nucleus; Y_2 receptor; Nucleus tractus solitarius; Autoradiography (McLean, K.J. (35) 249)

Spontaneously hypertensive rats
Tyrosine hydroxylase mRNA; Medulla oblongata (Kumai, T. (36) 197)

Spreading depression
Heme oxygenase; Glia; Heat shock protein; Antioxidant; Stroke; Penumbra; Cerebral ischemia; Translation (Nimura, T. (37) 201)

Sprouting
Receptor tyrosine phosphatase; Chondroitin sulfate proteoglycan; Trk receptor; In-situ hybridization; Hippocampus; Lesion; Glial scarring (Snyder, S.E. (40) 79)

SR 48692
G-protein-coupled receptor; Hybridization, in situ; Receptor antibody; Gene regulation; Rat brain (Azzi, M. (42) 213)

Src family
Fyn-deficient mouse; Tyrosine kinase; Emotionality; Elevated plus-maze; Open-field test; Radial-maze performance; Spatial learning (Miyakawa, T. (37) 145)

SS mRNA
Veratridine; Veratridine-induced SS gene expression; Brain somatostatin; Long-term depolarization; Short-term depolarization (Tolón, R.M. (35) 103)

Staurosporine
Neuroblastoma; Cyclic AMP; Synapsin I; Dopamine β-hydroxylase; Gene expression (Sasaki, K. (40) 157)

Steroid receptor
Maternal behavior; Postpartum; Medial preoptic nucleus; Ventromedial nucleus; Medial amygdala; Bed nucleus of the stria terminalis (Wagner, C.K. (42) 328)

Testosterone propionate; Cranial motor neuron; Gender (Drengler, S.M. (35) 131)

Testosterone propionate; Dihydrotestosterone; Cranial motor neuron; Sex difference (Drengler, S.M. (41) 8)

Steroids
Ethanol; Glucocorticoids; Calcium influx; Dihydropyridine binding; Calcium channels; Brain synaptosomes (Sze, P.Y. (37) 231)

Stimulation frequency
Electroacupuncture; c-*fos*; c-*jun*; Preproenkephalin; Preprodynorphin; Proopiomelanocortin (Guo, H.-F. (43) 157)

Stimulus-transcription coupling
Cortico-striatal projection; Topographic organization; Caudal striatum; Lateral amygdala; Mouse (Arnauld, E. (41) 27)

Store depletion
SH-SY5Y cell; Calcium; Calcium entry; Muscarinic receptor; SKF 96365; Fura-2 (Grudt, T.J. (36) 93)

Store-operated Ca^{2+} channel
TRP; Rat brain; Hybridization, in situ; Development (Funayama, M. (43) 259)

Stress
Cocaine; Alcohol; Immediate-early gene; Rat (Torres, G. (43) 225)

Corticotropin-releasing factor; Receptor; Paraventricular nucleus; Hybridization, in situ (Imaki, T. (38) 166)

Stress-activated protein kinase β
MAP kinase; Neuron specificity; Neuronal development; Synaptogenesis; Neuroblastoma (Martin, J.H. (35) 47)

Stress non-responsive period
In situ hybridization; Aging; Corticotropin releasing hormone receptor (Ceccatelli, S. (37) 175)

Stress protein
Heme oxygenase; Brain injury; Reactive astrocyte; Heat shock protein; Gliosis (Dwyer, B.E. (38) 251)

Stress response
Alzheimer's disease; β-Amyloid precursor protein; Transcriptional regulation; Heat shock element (Dewji, N.N. (35) 325)

Striatal graft
Immediate early gene; c-*fos*; *jun D*; pp60^{c-src+}; Hybridisation, in-situ; Striatal lesion; Development (Haque, N.S.K. (41) 90)

Striatal lesion
Immediate early gene; c-*fos*; *jun D*; pp60^{c-src+}; Hybridisation, in-situ; Striatal graft; Development (Haque, N.S.K. (41) 90)

Striatum
6-Hydroxydopamine lesion; NMDA receptor; MK-801; GAD67 mRNA; Hybridization, in situ (Hajji, M.D. (43) 219)

Brain-derived neurotrophic factor; 1-Methyl-4-phenylpyridinium; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Reverse transcriptase–polymerase chain reaction; Substantia nigra; Ventral tegmental area; Nucleus accumbens; Gene expression (Hung, H.-C. (41) 16)

Choline transport; Choline mustard; Aziridinium; Cholinergic; Acetylcholine (Rylett, R.J. (35) 354)

Creatine kinase; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Brain stem; Spinal cord; Olfactory bulb; Thalamus; Gender; Sex; Interleukin; Cytokine (Ilyin, S.E. (41) 50)

Dopamine; Enkephalin; 6-Hydroxydopamine; Messenger RNA; Partial lesion; Substance P; Tyrosine hydroxylase (Nisenbaum, L.K. (37) 209)

Dopamine; Serotonin; C-*fos*; Immunohistochemistry; 5-HT_{1A} receptors; 5-HT_2 receptors; 5-HT_3 receptors; D_1 receptors; Agonists; Antagonists; 6-OHDA; Rat (Rouillard, C. (37) 105)

SCH 23390; Sulpiride; Opioid; In situ hybridization; Sensorimotor cortex; Psychostimulant; Immediate early gene; Transcription factors (Daunais, J.B. (35) 237)

Stroke
Heme oxygenase; Glia; Heat shock protein; Antioxidant; Penumbra; Spreading depression; Cerebral ischemia; Translation (Nimura, T. (37) 201)

Interleukin-1β converting enzyme; *bcl-2*; *bax*; *bcl-x*; DNA fragmentation (Honkaniemi, J. (42) 79)

Programed cell death; Focal ischemia; *bcl-2* gene family; DNA fragmentation; Immediate-early gene (Gillardon, F. (40) 254)

Structural analysis
Bcl-2; Bax; A1; Neurodegeneration; Two hybrid system (Kurschner, C. (37) 249)

Subiculum
Plasminogen activator; Urokinase; Urokinase-type plasminogen activator; uPA mRNA localization in the mouse brain; In situ hybridization; Entorhinal cortex; Parietal cortex (Masos, T. (35) 139)

Substance P
6-Hydroxydopamine; Dopamine; Dynorphin A(1–8); GBR-12909; Neurokinin A; Preprotachykinin; Prodynorphin; Cyclophilin (Sivam, S.P. (35) 197)

Diabetes; Neuropathy; Regeneration; Neurotrophin; Growth associated protein-43 (Maeda, K. (37) 166)

Dopamine; Enkephalin; 6-Hydroxydopamine; Messenger RNA; Partial lesion; Striatum; Tyrosine hydroxylase (Nisenbaum, L.K. (37) 209)

Nerve growth factor; Preprotachykinin mRNA; trkA mRNA; Diabetic neuropathy; Inflammation (Garrett, N.E. (42) 272)

Substantia nigra
Brain-derived neurotrophic factor; 1-Methyl-4-phenylpyridinium; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Reverse transcriptase–polymerase chain reaction; Ventral tegmental area; Striatum; Nucleus accumbens; Gene expression (Hung, H.-C. (41) 16)

Transplantation; Parkinson's disease; Dopamine transporter; Caudate putamen (Fujita, M. (39) 127)

Substantia nigra pars compacta
Neurotensin; Dopaminergic neuron; Whole-cell voltage-clamp recording; Single-cell RT-PCR assay; PTX-insensitive G-protein (Wang, H.-L. (36) 29)

Subunit specific antibody
NMDA receptor subunit; Ethanol physical dependence; Hybridization, in-situ; Immunoreactivity (Snell, L.D. (40) 71)

Sulfation
Chondroitin sulfate proteoglycan; Aggrecan; Versican; Posttranslational modification; Extracellular matrix; Developmental regulation (Li, H. (36) 309)

Sulpiride
SCH 23390; Opioid; In situ hybridization; Striatum; Sensorimotor cortex; Psychostimulant; Immediate early gene; Transcription factors (Daunais, J.B. (35) 237)

Superior cervical ganglion
Axotomy; Brain; Cell culture; Histochemistry; β-Galactosidase; Mouse; Neuropeptide; Transgene; Vasoactive intestinal peptide (Tsuruda, L.M. (42) 181)

Superior olivary complex
Acetylcholine; Efferent innervation; Cochlea; Guinea pig; Rat; Hybridization, in-situ; Reverse transcriptase–polymerase chain reaction (Safieddine, S. (40) 127)

Suprachiasmatic nucleus
C3H/HeN mice; Retina; Light; c-*fos* mRNA (Masana, M.I. (42) 193)

Circadian rhythm; Photosensitivity; C-*fos*; Fos-lir; Light stimulus; Testicular activity (Boissin-Agasse, L. (37) 21)

Supraoptic nucleus; Rat; Circadian rhythm; In situ hybridization; Glutamate transporter; EAAC1; Glutamate uptake (Cagampang, F.R.A. (35) 190)

Supraoptic nucleus
Gene expression; AP-1 DNA binding; Fos; Jun; Transcription factor; Hyperosmolality; Paraventricular nucleus (Ying, Z. (39) 109)

Suprachiasmatic nucleus; Rat; Circadian rhythm; In situ hybridization; Glutamate transporter; EAAC1; Glutamate uptake (Cagampang, F.R.A. (35) 190)

Sympathetic neuron
Histone deacetylase; Trichostatin; Trapoxin; CHP126 cell (Chireux, M. (39) 68)

Synapse
L-Arginine; *N*-L-Arginine-methyl ester; Calcium/calmodulin-dependent phosphorylation; Major postsynaptic density protein; Nitric oxide; Nitric oxide synthase; Sodium nitroprusside (Wu, K. (40) 22)

Postsynaptic density; Presynaptic grid; Cortex; Cytoskeleton; Synapse-associated protein; cDNA cloning; Expression screening (Langnaese, K. (42) 118)

Synapse-associated protein
Synapse; Postsynaptic density; Presynaptic grid; Cortex; Cytoskeleton; cDNA cloning; Expression screening (Langnaese, K. (42) 118)

Synapsin
Transcriptional control; POU family transcription factor; Brn-3; SNAP-25 (Morris, P.J. (43) 279)

Synapsin I
CaM kinase II; Synaptic vesicles; Neurotransmitter release (Benfenati, F. (40) 297)

Neuroblastoma; Cyclic AMP; Staurosporine; Dopamine β-hydroxylase; Gene expression (Sasaki, K. (40) 157)

Synaptic junction
Postsynaptic density; Actin; Cytoskeleton; Neurotransmitter receptor; CaM kinase II (Adam, G. (43) 246)

Synaptic plasticity
Brain-derived neurotrophic factor; Neurotrophin; trkB; Postsynaptic; Receptor protein tyrosine kinase (Wu, K. (43) 286)

Long-term potentiation; Antisense DNA; Hippocampus; CA1; Protein phosphatase; Calcineurin; FK506 (Ikegami, S. (41) 183)

Synaptic protein
Axotomy; Avulsion; Spinal cord; Ventral horn; GAP-43; Nucleus; Intron; In situ hybridization; mRNA; Gene; Rat; Chicken (Jacobsson, G. (37) 49)

Synaptic transmission
TrkB; Hippocampus; Neurotrophin; Brain-derived neurotrophic factor; Neurotrophin-4 (Levine, E.S. (38) 300)

Synaptic vesicle amine transporter
Dopamine transporter; In situ hybridization; Neuromelanin; Parkinson's disease (Harrington, K.A. (36) 157)

Synaptic vesicle monoamine transporter
Dopamine; Reverse transcriptase-PCR; Tyrosine hydroxylase; Neuronal interaction (Perrone-Capano, C. (39) 160)

Synaptic vesicles
CaM kinase II; Synapsin I; Neurotransmitter release (Benfenati, F. (40) 297)

Synaptogenesis
MAP kinase; Neuron specificity; Neuronal development; Stress-activated protein kinase β; Neuroblastoma (Martin, J.H. (35) 47)

Synaptosome
Cigarette smoke; cGMP; Nitric oxide; Free radical; Nerve terminal; Cerebral cortex; Rat (Kamisaki, Y. (42) 39)

Synaptotagmin
Kainic acid; Development; Seizure; Hippocampus; Limbic system (Tocco, G. (40) 229)

Synthesis regulation
Chromogranin; Secretoneurin; Second messen-

ger; Signal transduction (Wolkersdorfer, M. (38) 260)

T

tPA
Neuropeptide Y; Calcitonin gene-related peptide; Neurons; Microglia; Proteinase; Degradation; Plasminogen activator; uPA (Ludwig, R. (37) 181)

trkA mRNA
Substance P; Nerve growth factor; Preprotachykinin mRNA; Diabetic neuropathy; Inflammation (Garrett, N.E. (42) 272)

***trk*B**
Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin 3; Neurotrophin 4/5; *trk*A; *trk*C; $p75^{LNGFR}$; RT-PCR (Suter-Crazzolara, C. (43) 351)

trkB
Synaptic plasticity; Brain-derived neurotrophic factor; Neurotrophin; Postsynaptic; Receptor protein tyrosine kinase (Wu, K. (43) 286)

Tachykinin NK1 receptor
Dorsal root ganglion; Gene expression; Reverse transcription-polymerase chain reaction; Mouse; Messenger ribonucleic acid; CNS (Andoh, T. (35) 329)

Tardive dyskinesia
Haloperidol and metabolites; Neurotoxicity; Single photon emission computed tomography; [^{123}I]Iodobenzamide; Dopamine receptor binding; Baboon; 4-(4-Chlorophenyl)-[4-(fluorophenyl)-4-oxobutyl]-1,2,3,6-tetrahydropyridine (Van der Schyf, C.J. (43) 251)

Tau protein
Alzheimer's disease; Neurofibrillary degeneration; Paired helical filament; Phosphorylation-dependent monoclonal antibody (Buée-Scherrer, V. (39) 79)

Telencephalon
Gene expression; Winged-helix; Neuroepithelium; Fork head (Li, H. (37) 96)

Teleost
Calcium-binding protein; Olfactory tissue; S100; Nucleotide sequence; cDNA library (Porta, A.R. (41) 81)

Testicular activity
Suprachiasmatic nucleus; Circadian rhythm; Photosensitivity; C-*fos*; Fos-lir; Light stimulus (Boissin-Agasse, L. (37) 21)

Testosterone propionate
Dihydrotestosterone; Steroid receptor; Cranial motor neuron; Sex difference (Drengler, S.M. (41) 8)

Steroid receptor; Cranial motor neuron; Gender (Drengler, S.M. (35) 131)

Tetracycline
Herpes simplex virus; Defective vector; Inducible promoter; Hippocampus; Hippocampal neuron (Ho, D.Y. (41) 200)

12-*O*-Tetradecanoyl phorbol-13-acetate
Nerve growth factor; AP-1; cAMP; Intracellular Ca^{2+}; mRNA stability (Colangelo, A.M. (35) 1)

Tetradecanoylphorbol acetate
In situ hybridization; Northern blot hybridization; Immunocytochemistry; Development; Neurons; Astrocytes (Just, L. (35) 157)

Tetrahydrobiopterin
Nitric oxide; Nitric oxide synthase; GTP cyclohydrolase I; Astrocyte; Cytokine; Lipopolysaccharide (D'Sa, C. (41) 105)

Thalamus
Creatine kinase; Nervous system; Cerebellum; Hippocampus; Hypothalamus; Cortex; Brain stem; Spinal cord; Olfactory bulb; Striatum; Gender; Sex; Interleukin; Cytokine (Ilyin, S.E. (41) 50)

Thermal stress
Heat shock protein; Nerve growth factor; Programmed cell death; Trigeminal ganglion; Sensory neuron; Protein synthesis (Wyatt, S. (39) 52)

TH promoter
Transgenic mouse; Developmental gene expression; Catecholaminergic neuron (Son, J.H. (36) 300)

Threonine
Anterior piriform cortex; Amino acid imbalanced diet; Feeding behavior; Dorsomedial nucleus of the hypothalamus; Infralimbic cortex (Wang, Y. (40) 27)

Thrombin
Serine proteinase inhibitor; B-43; Bovine brain; Cloning (Nakaya, N. (42) 293)

Time course
Focal cerebral ischaemia; Heat shock protein; mRNA; Protein (Wagstaff, M.J.D. (42) 236)

TNF-α
mRNA; Northern blot; Cortex; Injury; Fluid percussion (Fan, L. (36) 287)

Topographic organization
Stimulus-transcription coupling; Cortico-striatal projection; Caudal striatum; Lateral amygdala; Mouse (Arnauld, E. (41) 27)

Torpedo
Acetylcholine receptor; Assembly signal; α-Bungarotoxin; Post-translational processing; Disulfide loop (Walcott, E.C. (41) 289)

Tottering
Purkinje cell degeneration; Nervous; Neurological mutation; Mutation mapping; Simple sequence length polymorphism (Campbell, D.B. (37) 79)

Transcription
Cerebrum; Hypothyroid; Tubulin; Actin; mRNA (Poddar, R. (35) 111)

Enkephalin; Hormone; Transfection; Glucocorticoid (Crabb, D.W. (42) 103)

Nerve growth factor; Promoter; Neurotrophin; Polymerase chain reaction; Gene regulation (Racke, M.M. (41) 192)

Transcriptional control
POU family transcription factor; Brn-3; Synapsin; SNAP-25 (Morris, P.J. (43) 279)

Transcriptional regulation
Alzheimer's disease; β-Amyloid precursor protein; Heat shock element; Stress response (Dewji, N.N. (35) 325)

Choline acetyltransferase; Spinal muscular atrophy of childhood; Motoneuron development; mRNA stabilization; Neurofilament overexpression; Neuromuscular diseases; RT-PCR (Pernas-Alonso, R. (38) 267)

Transcription factor
Acidic domain; Central nervous system; Glial cell; Krüppel-type zinc finger protein; Rat (Pott, U. (38) 109)

Basic helix-loop-helix; Neuronal differentiation; In situ hybridization; Gene expression; Cerebellum (Haire, M.F. (36) 174)

Gene expression; AP-1 DNA binding; Fos; Jun; Hyperosmolality; Supraoptic nucleus; Paraventricular nucleus (Ying, Z. (39) 109)

Gene regulation; Immediate-early gene; Hippocampus; Seizure; Lindane; PC12 cell; Signal-transcription coupling (Peña de Ortiz, S. (38) 1)

Homeodomain; Zinc finger; Neuronal differentiation; Gene expression; Hybridization, in situ; RNase protection assay (Watanabe, M. (42) 344)

Immediate early gene; Peripheral nerve grafting; *bZip* superfamily; CRE-BP1; HB16; TREB7 (Robinson, G.A. (41) 57)

Immediate-early gene; Acetylcholine; Glutamate; Long-term potentiation; Memory (Dragunow, M. (36) 349)

Nurr1; NGFI-B; In-situ hybridization; Immediate early gene; Orphan receptor (Zetterström, R.H. (41) 111)

Orphan nuclear receptor; Neuron; Postnatal development (Sashihara, S. (42) 109)

POU; Hypothalamus; Neuropeptide; Gene regulation; In situ hybridization; Autoregulation (Malik, K.F. (38) 209)

cAMP response element; Aging; Brain; Rolipram; Phosphodiesterase inhibitor (Asanuma, M. (41) 210)

Transcription factors
NF-κB; IκB; Long-term potentiation; Hippocampus; Protein kinase C; Rat; mRNA (Meberg, P.J. (38) 179)

SCH 23390; Sulpiride; Opioid; In situ hybridization; Striatum; Sensorimotor cortex; Psychostimulant; Immediate early gene (Daunais, J.B. (35) 237)

Transfection
Human CNS precursor cell; Lipofectamine; Large-T antigen (Cattaneo, E. (42) 161)

Neuronal culture; Hippocampus; Liposomes; Beta-galactosidase (Kaech, S. (35) 344)

Transcription; Enkephalin; Hormone; Glucocorticoid (Crabb, D.W. (42) 103)

Transgene
Axotomy; Brain; Cell culture; Histochemistry; β-Galactosidase; Mouse; Neuropeptide; Superior cervical ganglion; Vasoactive intestinal peptide (Tsuruda, L.M. (42) 181)

Hypothalamus; Pituitary; Osmotic stimulation; Polymerase chain reaction (Burke, Z.D. (42) 287)

Transgenic mouse
Calbindin-D_{28K}; Cerebellum; Purkinje cell; Hippocampus; CA1 (Pavlou, O. (36) 268)

lacZ reporter gene; Hybridization, in-situ; Granule cell; Pyramidal cell; Kainic acid; Gene expression; GAP-43 (McNamara, R.K. (40) 177)

Mouse; Neurofilament; Animal model; Memory; Morris water maze; Alzheimer's disease (Haroutunian, V. (42) 62)

TH promoter; Developmental gene expression; Catecholaminergic neuron (Son, J.H. (36) 300)

Transgenic pineal tumor
Serotonin *N*-acetyltransferase; Tryptophan hydroxylase promoter (Son, J.H. (37) 32)

Transgenic strategy
Antisense; RNA; Oligodendrocyte; Myelin; Myelin oligodendrocyte glycoprotein (MOG) (Jaquet, V. (43) 333)

Transient forebrain ischemia
Protein tyrosine phosphatase; Neuron; Oligodendrocyte; PRL-1; Cerebral cortex (Takano, S. (40) 105)

Transient transfection
Cos 1 cell; Opioid binding cell adhesion molecule; Phosphatidylinositol; Phospholipase C (Wick, M.J. (36) 322)

DBH promoter; Luciferase activity; Silencer; cAMP regulation (Afar, R. (36) 79)

c-Jun; Prodynorphin; PC12 cell; Gel supershift analysis; Gene regulation (Messersmith, D.J. (40) 15)

Translation
Heme oxygenase; Glia; Heat shock protein; Antioxidant; Stroke; Penumbra; Spreading depression; Cerebral ischemia (Nimura, T. (37) 201)

Translational regulation
Primary neuronal culture; Initiation factor; Protein phosphorylation (Alcázar, A. (38) 101)

Translation initiation site
Choline acetyltransferase; Human; cDNA; Expression, in vitro; Enzyme activity (Oda, Y. (38) 135)

Transplantation
Parkinson's disease; Dopamine transporter; Caudate putamen; Substantia nigra (Fujita, M. (39) 127)

Transporter
GABA; Electron microscopy; Immunocytochemistry; Cerebellum; Presynapse; Glial process (Itouji, A. (37) 309)

Trapoxin
Histone deacetylase; Trichostatin; Sympathetic neuron; CHP126 cell (Chireux, M. (39) 68)

Traumatic brain injury
Immediate early genes; c-*fos*; c-*jun*; JunB (Raghupathi, R. (37) 134)

TREB7
Immediate early gene; Transcription factor; Peripheral nerve grafting; *bZip* superfamily; CREBP1; HB16 (Robinson, G.A. (41) 57)

Triazolam
Hybridization, in situ; RNA; $GABA_A$ receptor; Chronic; Limbic system (Ramsey-Williams, V.A. (43) 132)

Trichoplusia ni **insect cells**
Baculovirus; NMDA receptor; Overexpression; Histidine tag; *N*-glycosylation; Protein purification; 5,7-[3-^{3}H]Dichlorokynurenate binding (Sydow, S. (41) 228)

Trichostatin
Histone deacetylase; Trapoxin; Sympathetic neuron; CHP126 cell (Chireux, M. (39) 68)

Trigeminal ganglion
Heat shock protein; Nerve growth factor; Programmed cell death; Thermal stress; Sensory neuron; Protein synthesis (Wyatt, S. (39) 52)

Trinucleotide repeat
Dentatorubral pallidoluysian atrophy; Microsatellite; Huntington's disease (Margolis, R.L. (36) 219)

TrkA
Insulin receptor-related receptor; Rat brain; Cholinergic neuron; Hybridization, in situ; Immunohistochemistry (Tsuji, N. (41) 250)

TrkB
Neurotrophin receptor; Western blot; Cortex; Alcohol; Protein (Baek, J.-K. (40) 161)

Brain-derived neurotrophic factor; Glutamate; Quisqualate; Entorhinal cortex; Hippocampus (Falkenberg, T. (42) 317)

GABA; Hippocampus; mRNA; In situ hybridization (Zachrisson, O. (36) 169)

Hippocampus; Neurotrophin; Synaptic transmission; Brain-derived neurotrophic factor; Neurotrophin-4 (Levine, E.S. (38) 300)

Trk receptor
Receptor tyrosine phosphatase; Chondroitin sulfate proteoglycan; In-situ hybridization; Hippocampus; Sprouting; Lesion; Glial scarring (Snyder, S.E. (40) 79)

Trophic factor
Human; Motor neuron; Lou Gehrig's disease; Amyotrophic lateral sclerosis; Type-I IGF receptor; Type-II IGF receptor; Neurodegeneration; Clinical application (Doré, S. (41) 128)

Tyrosine kinase receptor; Chick; *c-ret* Protooncogene; Motoneuron; Deafferentation; Denervation; Hybridization, in situ (Nakamura, M. (39) 1)

Trophic factors
Galanin; Neuropeptide Y; Tyrosine hydroxylase; Locus coeruleus; Olfactory bulb; In situ hybridization; Messenger RNA (Holmes, P.V. (36) 184)

Trout
DM20; Proteolipid protein; Myelin; Gene expression; Brain development (Tang, S. (41) 134)

TRP
Store-operated Ca^{2+} channel; Rat brain; Hybridization, in situ; Development (Funayama, M. (43) 259)

Tryptamine
Psychosis; Psychotogenesis; 2-Phenyletylamine; Schizophrenia; Dopa decarboxylase (Buckland, P.R. (35) 69)

Tryptophan hydroxylase
Genetically epilepsy-prone rat; mRNA; Neurotransporters; Tyrosine hydroxylase; In situ; Norepinephrine transporter; Dopamine transporter; Serotonin transporter (Szot, P. (43) 233)

Melatonin; Pineal; Circadian rhythm; Molecular cloning (Florez, J.C. (42) 25)

Tryptophan hydroxylase mRNA
Nycthemeral rhythm; Rat pineal gland; Hybridization, in-situ (Besançon, R. (40) 136)

Polymerase chain reaction; Serotonin transporter mRNA; 5,7-Dihydroxytryptamine; Dorsal raphe nucleus; Dexfenfluramine (Semple-Rowland, S.L. (41) 121)

Tryptophan hydroxylase promoter
Transgenic pineal tumor; Serotonin *N*-acetyltransferase (Son, J.H. (37) 32)

Tubulin
Cerebrum; Hypothyroid; Actin; mRNA; Transcription (Poddar, R. (35) 111)

α-Tubulin
Gene isotype; Cerebellum; Granule cell; Neuritogenesis; Neuronal culture; In situ hybridization (Przyborski, S.A. (36) 179)

Tumor cell-line
FGF-2; Cytokine; Growth factor; Hormone; Glia; Competitive RT-PCR (Suter-Crazzolara, C. (41) 175)

Tumor necrosis factor
Adrenalectomy; Lipopolysaccharide; IL-1; IL-6; IL-1ra; Spleen; Pituitary; Brain; Mice (Goujon, E. (36) 53)

Alzheimer's disease; β-Amyloid precursor protein; cGMP; NF-κB; I-κBα/MAD3; Calcium; Free radical; Antisense (Barger, S.W. (40) 116)

Two hybrid system
Bcl-2; Bax; A1; Neurodegeneration; Structural analysis (Kurschner, C. (37) 249)

GAP-43; Growth cone; Development; Phosphoprotein; Calmodulin; Protein kinase C (Chao, S. (40) 195)

Type-I IGF receptor
Human; Motor neuron; Lou Gehrig's disease; Amyotrophic lateral sclerosis; Trophic factor; Type-II IGF receptor; Neurodegeneration; Clinical application (Doré, S. (41) 128)

Type-II IGF receptor
Human; Motor neuron; Lou Gehrig's disease; Amyotrophic lateral sclerosis; Trophic factor; Type-I IGF receptor; Neurodegeneration; Clinical application (Doré, S. (41) 128)

Tyrosinase
Dopamine; DNA damage; Parkinson's disease (Stokes, A.H. (42) 167)

Tyrosine hydroxylase
Cell culture; Infection; X-gal cytochemistry; Cell type-specific expression (Oh, Y.J. (35) 227)

Dopamine; Enkephalin; 6-Hydroxydopamine; Messenger RNA; Partial lesion; Substance P; Striatum (Nisenbaum, L.K. (37) 209)

Dopamine; Reverse transcriptase-PCR; Synaptic vesicle monoamine transporter; Neuronal interaction (Perrone-Capano, C. (39) 160)

Galanin; Neuropeptide Y; Locus coeruleus; Olfactory bulb; In situ hybridization; Messenger RNA; Trophic factors (Holmes, P.V. (36) 184)

Genetically epilepsy-prone rat; mRNA; Neurotransporters; In situ; Tryptophan hydroxylase; Norepinephrine transporter; Dopamine transporter; Serotonin transporter (Szot, P. (43) 233)

Muscarinic acetylcholine receptor; Rat pheochromocytoma cell; Gene regulation; Cyclic AMP response element; AP1 element (Chen, Y. (40) 42)

Prostaglandin E_2; SK-N-BE(2)C cell; cAMP response element; AP1; Site-directed mutagenesis (Kim, J.-S. (39) 177)

Vitamin D; 1,25-Dihydroxyvitamin D3 receptor; mRNA; Gene expression; Adrenal medulla (Puchacz, E. (36) 193)

Weaver mutation; Dopamine membrane transporter; Vesicular monoamine transporter; Hybridization, in situ; Parkinson's disease (Adelbrecht, C. (43) 291)

Tyrosine hydroxylase mRNA
Medulla oblongata; Spontaneously hypertensive rats (Kumai, T. (36) 197)

Tyrosine hydroxylase protein; Hypoxia; Nucleus tractus solitarius; A2C2 neuron; Chemoreceptor pathway; Long-term hypoxia (Dumas, S. (40) 188)

Tyrosine hydroxylase protein
Tyrosine hydroxylase mRNA; Hypoxia; Nucleus tractus solitarius; A2C2 neuron; Chemoreceptor pathway; Long-term hypoxia (Dumas, S. (40) 188)

Tyrosine kinase
Fyn-deficient mouse; Src family; Emotionality; Elevated plus-maze; Open-field test; Radial-maze performance; Spatial learning (Miyakawa, T. (37) 145)

Neurons; Astrocytes; Protein phosphorylation (Burgaya, F. (37) 63)

Tyrosine kinase receptor
Chick; *c-ret* Proto-oncogene; Motoneuron; Trophic factor; Deafferentation; Denervation; Hybridization, in situ (Nakamura, M. (39) 1)

Tyrosine phosphatase
Chick; Cerebellum; Bergmann glia; Development (Fang, K.S. (37) 1)

Tyrosine phosphorylation
Laminin; Neurite outgrowth; Actin; Focal adhesion kinase; Paxillin; Cytoskeleton (Leventhal, P.S. (43) 338)

U

UbA
UbC; UbB; Rat; Cortex; Hippocampus; In situ hybridization; Dot-blotting (Noga, M. (36) 261)

UbB
UbC; UbA; Rat; Cortex; Hippocampus; In situ hybridization; Dot-blotting (Noga, M. (36) 261)

UbC
UbB; UbA; Rat; Cortex; Hippocampus; In situ hybridization; Dot-blotting (Noga, M. (36) 261)

3′ Untranslated region
5-HT_{2C} receptor mRNA; Brain binding proteins; RNA binding motif; Post-transcriptional regulation (Kao, H.-T. (43) 174)

GAP-43; mRNA stability; RNA–protein interaction; Gene expression; Sequence conservation (Kohn, D.T. (36) 240)

Neuropeptide; Phorbol ester; Post-transcriptional regulation; Vasoactive intestinal polypeptide (Tolentino, P.J. (39) 89)

uPA
Neuropeptide Y; Calcitonin gene-related peptide; Neurons; Microglia; Proteinase; Degradation; Plasminogen activator; tPA (Ludwig, R. (37) 181)

uPA mRNA localization in the mouse brain
Plasminogen activator; Urokinase; Urokinase-type plasminogen activator; In situ hybridization; Subiculum; Entorhinal cortex; Parietal cortex (Masos, T. (35) 139)

Up-regulation
Cystatin C; Microglia; Facial nucleus; Axotomy; Differential hybridization (Miyake, T. (37) 273)

Chronic ethanol; NMDA receptor antagonist; mRNA levels (Hu, X.-J. (36) 211)

Urokinase
Plasminogen activator; Urokinase-type plasminogen activator; uPA mRNA localization in the mouse brain; In situ hybridization; Subiculum; Entorhinal cortex; Parietal cortex (Masos, T. (35) 139)

Urokinase-type plasminogen activator
Plasminogen activator; Urokinase; uPA mRNA localization in the mouse brain; In situ hybridization; Subiculum; Entorhinal cortex; Parietal cortex (Masos, T. (35) 139)

USF
Amyloid precursor protein; Promoter; E box (Bourbonnière, M. (35) 304)

V

v7-3
Sodium- and chloride-dependent neurotransmitter transporter family; mRNA expression; Hybridization, in situ; Widespread brain distribution (Inoue, K. (37) 217)

Vaccinia virus
Glutamate; Cotransport; In situ hybridization; Sequence; Expression (Bjørås, M. (36) 163)

Vagus nerve
Neurotrophic; Hybridization histochemistry, in situ; Visceral sensory neuron; Neonatal rat; Oligonucleotide (Zhuo, H. (38) 63)

Vanilloid receptor
Capsaicin; Resiniferatoxin; Cultured neurons; Dorsal root ganglia; Rat; Receptor subclasses (Acs, G. (35) 173)

Vasoactive intestinal peptide
Axotomy; Brain; Cell culture; Histochemistry; β-Galactosidase; Mouse; Neuropeptide; Superior cervical ganglion; Transgene (Tsuruda, L.M. (42) 181)

Glycogen; Astrocyte; Energy metabolism; Noradrenaline; Gene expression; cDNA (Pellegri, G. (38) 191)

Vasoactive intestinal polypeptide
Neuropeptide; Phorbol ester; Post-transcriptional regulation; 3′-Untranslated region (Tolentino, P.J. (39) 89)

Vasopressin
Calbindin-D28k; mRNA; Oxytocin; Dehydration; Parturition; Lactation; Rat (Voisin, D.L. (42) 279)

Endotoxin; Choroid plexus; Prostaglandin; Interleukin-1β; c-*fos*; Hypothalamus; Corticotrophin releasing hormone; Oxytocin; Sheep (Vellucci, S.V. (43) 41)

Ventral horn
Axotomy; Avulsion; Spinal cord; GAP-43; Synaptic protein; Nucleus; Intron; In situ hybridization; mRNA; Gene; Rat; Chicken (Jacobsson, G. (37) 49)

Ventral tegmental area
Brain-derived neurotrophic factor; 1-Methyl-4-phenylpyridinium; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Reverse transcriptase–polymerase chain reaction; Substantia nigra; Striatum; Nucleus accumbens; Gene expression (Hung, H.-C. (41) 16)

Ventromedial nucleus
Maternal behavior; Postpartum; Steroid receptor; Medial preoptic nucleus; Medial amygdala; Bed nucleus of the stria terminalis (Wagner, C.K. (42) 328)

Veratridine
Veratridine-induced SS gene expression; SS mRNA; Brain somatostatin; Long-term depolarization; Short-term depolarization (Tolón, R.M. (35) 103)

Veratridine-induced SS gene expression
Veratridine; SS mRNA; Brain somatostatin; Long-term depolarization; Short-term depolarization (Tolón, R.M. (35) 103)

Versican
Chondroitin sulfate proteoglycan; Aggrecan; Posttranslational modification; Extracellular matrix; Developmental regulation; Sulfation (Li, H. (36) 309)

Vesicular monoamine transporter
Weaver mutation; Dopamine membrane transporter; Tyrosine hydroxylase; Hybridization, in situ; Parkinson's disease (Adelbrecht, C. (43) 291)

Vesicular transporter
Cholinergic neurons; Hydridization histochemistry, in situ; Acetylcholine; Non-radiolabeled riboprobes; Rat central nervous system (Roghani, A. (43) 65)

Viral vector
Neurons; Gene therapy; HSV; LacZ; Alkaline phosphatase (New, K.C. (37) 317)

Visceral sensory neuron
Neurotrophic; Hybridization histochemistry, in situ; Vagus nerve; Neonatal rat; Oligonucleotide (Zhuo, H. (38) 63)

Visual development
Zif-268; Krox-24; Plasticity; Proto-oncogene; Critical period (Kaplan, I.V. (36) 12)

Vitamin D
1,25-Dihydroxyvitamin D3 receptor; Tyrosine hydroxylase; mRNA; Gene expression; Adrenal medulla (Puchacz, E. (36) 193)

P75; Gene regulation; Astrocyte; C6 glioma; Spinal cord (Naveilhan, P. (41) 259)

Voltage clamp
$GABA_A$ receptor; Messenger RNA; Benzodiazepine; Neuronal cell line; Gamma-2 subunit (Reynolds, J.N. (35) 11)

N-methyl-D-aspartate; Glutamate receptor; NMDAR1; Splicing; Oocyte (Koltchine, V.V. (39) 99)

Voltage-gated sodium channel
β_1-Subunit; Mouse; *Quivering*; Neuromuscular disease; Chromosome 7 (Grosson, C.L.S. (42) 222)

Voltage-operated potassium channel
Voltage-operated sodium channel; Immunogold; Preembedding; Silver enhancement; Gold toning; Electron microscopy; Rat; Cerebellum (Laube, G. (42) 51)

Voltage-operated sodium channel
Voltage-operated potassium channel; Immunogold; Preembedding; Silver enhancement; Gold toning; Electron microscopy; Rat; Cerebellum (Laube, G. (42) 51)

V-1 protein
cdc10/SWI6 motif; Gene expression; Cellular localization; Murine central nervous system; *pcd* mutant mice (Fujigasaki, H. (40) 203)

W

Water maze
Spatial memory; NGFI-A; Hippocampus; Gene expression; Glucocorticoid receptor (Yau, J.L.W. (42) 354)

Weaver mutation
Dopamine membrane transporter; Tyrosine hydroxylase; Vesicular monoamine transporter; Hybridization, in situ; Parkinson's disease (Adelbrecht, C. (43) 291)

Western blot
Immunocytochemistry; MKP-1; 3CH134; Epilepsy; Phosphatase (Gass, P. (41) 74)

Mouse; Midbrain; Dopaminergic neuron; MPTP; Immunocytochemistry; Neurodegeneration; Calbindin-D_{28k} (Ng, M.C. (36) 329)

Neurotrophin receptor; Trk-B; Cortex; Alcohol; Protein (Baek, J.-K. (40) 161)

Whole-cell voltage-clamp recording
Neurotensin; Substantia nigra pars compacta; Dopaminergic neuron; Single-cell RT-PCR assay; PTX-insensitive G-protein (Wang, H.-L. (36) 29)

Widespread brain distribution
Sodium- and chloride-dependent neurotransmitter transporter family; v7-3; mRNA expression; Hybridization, in situ (Inoue, K. (37) 217)

Winged-helix
Telencephalon; Gene expression; Neuroepithelium; Fork head (Li, H. (37) 96)

Withdrawal
Naloxone; Morphine; Preproenkephalin mRNA; Periaqueductal gray; Hybridization, in situ; Rat (Fukunaga, Y. (42) 128)

Wobbler
Calmodulin kinase type II; Mouse; Motor neuron disease; Spinal muscular atrophy (Bronstein, J.M. (43) 330)

X

Xenopus
Retina; Photoreceptor; Circadian; Rhythmic expression; Differential display (Green, C.B. (37) 157)

***Xenopus* oocyte**
$GABA_A$ receptor; Protein kinase G; cGMP; Phosphorylation; Site-directed mutagenesis (Leidenheimer, N.J. (42) 131)

Chemical kindling; FG 7142; β-Carboline; Kainic acid; γ-Aminobutyric acid; *N*-Methyl-D-aspartate (Lewin, E. (37) 304)

X-gal cytochemistry
Cell culture; Tyrosine hydroxylase; Infection; Cell type-specific expression (Oh, Y.J. (35) 227)

Y

Y_2 receptor
Neuropeptide Y; In situ hybridization histochemistry; Arcuate nucleus; Spontaneously hypertensive rat; Nucleus tractus solitarius; Autoradiography (McLean, K.J. (35) 249)

Z

Zebrafish
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Animal cognition; Animal learning; Cognition; Comparative cognition; Cognitive process; Learning (Thomas, R.K. (3) 157)

Rat; Cognition; Logic; Numerical competence (Davis, H. (3) 291)

Internal clock
Attention; Temporal memory; Acetylcholine; Dopamine; Glutamate; Basal ganglia; Frontal-striatal loop (Meck, W.H. (3) 227)

K

α-Ketoglutarate
Memory consolidation; Passive avoidance training; Day-old chick; Methionine sulfoximine; Glutamine synthetase; Glutamate–glutamine cycle; Glutamate; Glutamine; Alanine (Gibbs, M.E. (4) 57)

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Knowledge
Event-related potential; N400; N400-like; Face; Context; Inhibition (Debruille, J.B. (4) 133)

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M

Magnetoencephalographic (MEG) source mapping
Hippocampus; Human; Medial temporal lobe; Functional brain imaging; Auditory evoked response; Signal-space projection (SSP) (Tesche, C.D. (4) 39)

Magnetoencephalography
Motor imagery; Motor Cortex; Primary motor cortex (Lang, W. (3) 125)

MEG; Visual evoked magnetic field; Auditory evoked magnetic field; Language; Lexical processing; Cell assembly; Oscillatory brain activity (Eulitz, C. (4) 121)

Mangnetoencephalogram
MEG; Word recognition; Object recognition; Cerebral activity; Cortical localization (Kuriki, S. (4) 185)

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Non-matching; Recognition memory; Signal detection theory; Working memory; Rat (Pontecorvo, M.J. (3) 205)

Medial temporal lobe
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MEG
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Mangnetoencephalogram; Word recognition; Object recognition; Cerebral activity; Cortical localization (Kuriki, S. (4) 185)

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Lanthanum chloride; Retrieval; Recall; Reminder (Summers, M.J. (4) 109)

Positron emission tomography; Encoding; Episodic; Human; Prefrontal cortex (Kapur, S. (4) 243)

Memory consolidation
Passive avoidance training; Day-old chick; Methionine sulfoximine; Glutamine synthetase; Glutamate–glutamine cycle; Glutamate; Glutamine; α-Ketoglutarate; Alanine (Gibbs, M.E. (4) 57)

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Methionine sulfoximine
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Method
Repeated acquisition; Learning (Cohn, J. (3) 183)

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Microelectrode
Human; Brain; Language; Cerebral lateralization; Visuospatial (Schwartz, T.H. (4) 263)

Mirror neuron
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Memory; Forgetting function; Delayed matching-to-sample; Cholinergic system; Acetylcholine; Dopamine; GABA; Pigeon (White, K.G. (3) 309)

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Memory; Retrieval; Consolidation; Reminder; Chick (Summers, M.J. (3) 1)

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Perceptual-motor interaction; Movement imitation; Timing; Motor imagery; Short-term memory (Vogt, S. (3) 79)

Motor control
Apraxia; Kinematics; Body-schema; Cerebral dominance; Neuropsychology (Goldenberg, G. (3) 95)

Motor cortex
Spinal cord; Direction in space; Monkey; Frog; Force (Georgopoulos, A.P. (3) 151)

Motor imagery; Primary motor cortex; Magnetoencephalography (Lang, W. (3) 125)

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Movement representation
Premotor cortex; Mirror neuron; Gesture recognition; Broca's area (Rizzolatti, G. (3) 131)

Music imagination
Mentally playing an instrument; EEG; Coherence analysis (Petsche, H. (3) 115)

N

N4
Evoked potential; Serial position effect; Memory scanning; P3 (Chao, L.L. (4) 27)

N400
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Memory consolidation; Day-old chick; Methionine sulfoximine; Glutamine synthetase; Glutamate–glutamine cycle; Glutamate; Glutamine; α-Ketoglutarate; Alanine (Gibbs, M.E. (4) 57)

Pattern repetition
Event-related potential; Picture repetition; Priming; Repetition effect (Rugg, M.D. (3) 17)

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Line bisection; Normal subject; Motor factor; Attention; Peripersonal space; Extrapersonal space (Dellatolas, G. (4) 49)

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Movement imitation; Timing; Motion perception; Motor imagery; Short-term memory (Vogt, S. (3) 79)

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Audition; Segmentation; Event-related potential (ERP); Mismatch negativity (MMN) (Schröger, E. (4) 145)

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Picture repetition
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Pigeon
Memory; Forgetting function; Delayed matching-to-sample; Cholinergic system; Acetylcholine; Dopamine; GABA; Monkey (White, K.G. (3) 309)

Positron emission tomography
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P3-P300
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Primary motor cortex (MI)
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Procedural / declarative knowledge
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Procedural variable
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Processing negativity
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R

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Intelligence; Cognition; Logic; Numerical competence (Davis, H. (3) 291)

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Recognition memory
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Matching; Non-matching; Signal detection theory; Working memory; Rat (Pontecorvo, M.J. (3) 205)

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Recollection
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Lanthanum chloride; Memory; Retrieval; Recall (Summers, M.J. (4) 109)

Repeated acquisition
Learning; Method (Cohn, J. (3) 183)

Repetition effect
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Lanthanum chloride; Memory; Recall; Reminder (Summers, M.J. (4) 109)

Reversal
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Sensory memory
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Supplementary motor area (SMA)
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Temporal memory
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Theta
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Vertex P2
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Word representation
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'What' and 'where'; ERP; Negative slow wave (Mecklinger, A. (4) 211)

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BRAIN RESEARCH

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